

c 101	18	1.3	18	3	US-09-143-212-80	Sequence 80, Appl	174	15.8	1.1	20	4	US-09-364-416-75	Sequence 75, Appl
c 102	18	1.3	18	3	US-09-143-212-81	Sequence 81, Appl	175	15.8	1.1	25	3	US-08-737-607-21	Sequence 21, Appl
c 103	18	1.3	18	3	US-09-143-212-82	Sequence 82, Appl	c 176	15.8	1.1	27	2	US-08-778-487-7	Sequence 7, Appl
c 104	18	1.3	18	3	US-09-143-212-83	Sequence 83, Appl	c 177	15.8	1.1	27	3	US-08-891-516-7	Sequence 7, Appl
c 105	18	1.3	18	3	US-09-143-212-84	Sequence 84, Appl	c 178	15.8	1.1	27	3	US-08-837-034-7	Sequence 7, Appl
c 106	18	1.3	18	3	US-09-143-212-85	Sequence 85, Appl	c 179	15.8	1.1	28	1	US-08-466-033-49	Sequence 49, Appl
c 107	18	1.3	18	3	US-09-143-212-86	Sequence 86, Appl	180	15.8	1.1	28	1	US-08-444-733-49	Sequence 49, Appl
c 108	18	1.3	18	3	US-09-143-212-87	Sequence 87, Appl	181	15.8	1.1	28	2	US-08-464-134-49	Sequence 49, Appl
c 109	18	1.3	18	3	US-08-353-400-5	Sequence 5, Appl	182	15.8	1.1	28	2	US-08-461-361-49	Sequence 49, Appl
c 110	17.4	1.2	20	4	US-09-043-303-16	Sequence 16, Appl	183	15.8	1.1	28	2	US-08-485-910-49	Sequence 49, Appl
c 111	17	1.2	18	2	US-08-857-946-14	Sequence 14, Appl	c 184	15.8	1.1	28	3	US-08-846-020A-2	Sequence 2, Appl
c 112	17	1.2	18	3	US-08-970-740-14	Sequence 14, Appl	c 185	15.8	1.1	28	4	US-09-617-871-2	Sequence 2, Appl
c 113	17	1.2	20	4	US-09-593-711A-37	Sequence 37, Appl	186	15.8	1.1	28	5	PCT-US95-06266-33	Sequence 33, Appl
c 114	16.8	1.2	23	1	US-08-308-949A-11	Sequence 11, Appl	c 187	15.8	1.1	29	1	US-08-205-777-1	Sequence 1, Appl
c 115	16.8	1.2	26	1	US-08-487-141B-43	Sequence 43, Appl	188	15.8	1.1	29	1	US-08-442-542-37	Sequence 37, Appl
c 116	16.8	1.2	26	2	US-08-927-561-43	Sequence 43, Appl	c 189	15.8	1.1	29	1	US-08-611-872-1	Sequence 1, Appl
c 117	16.8	1.2	26	5	PCT-US96-09388-43	Sequence 43, Appl	c 190	15.8	1.1	29	3	US-08-765-469-37	Sequence 37, Appl
c 118	16.8	1.2	28	2	US-08-859-998-1203	Sequence 1203, Ap	c 191	15.8	1.1	30	1	US-08-823-891-76	Sequence 76, Appl
c 119	16.8	1.2	28	4	US-09-225-928-1203	Sequence 1203, Ap	192	15.8	1.1	30	2	US-07-916-098A-42	Sequence 42, Appl
c 120	16.8	1.2	30	1	US-08-585-197A-32	Sequence 32, Appl	c 193	15.8	1.1	30	2	US-08-442-809A-40	Sequence 40, Appl
c 121	16.8	1.2	30	5	PCT-US95-07372-3	Sequence 3, Appl	c 194	15.6	1.1	22	1	US-08-356-790-10	Sequence 10, Appl
c 122	16.6	1.2	24	1	US-07-722-798A-49	Sequence 49, Appl	c 195	15.6	1.1	22	4	US-09-444-053-6	Sequence 6, Appl
c 123	16.6	1.2	24	1	US-08-460-344-7	Sequence 7, Appl	196	15.6	1.1	23	2	US-07-728-215-10	Sequence 10, Appl
c 124	16.6	1.2	24	1	US-08-133-598A-7	Sequence 7, Appl	197	15.6	1.1	23	4	US-08-938-085A-10	Sequence 10, Appl
c 125	16.6	1.2	24	1	US-08-886-999-7	Sequence 7, Appl	c 198	15.6	1.1	23	3	US-09-014-065-17	Sequence 17, Appl
c 126	16.6	1.2	24	5	PCT-US93-05085-7	Sequence 7, Appl	c 199	15.6	1.1	26	4	US-09-485-737B-60	Sequence 60, Appl
c 127	16.6	1.2	29	1	US-08-413-118-93	Sequence 93, Appl	c 200	15.6	1.1	27	2	US-08-410-654B-36	Sequence 36, Appl
c 128	16.6	1.2	29	3	US-08-473-446-93	Sequence 93, Appl	c 201	15.6	1.1	27	2	US-08-474-851-36	Sequence 36, Appl
c 129	16.6	1.2	29	4	US-08-793-701-16	Sequence 16, Appl	c 202	15.6	1.1	27	2	US-08-481-560-36	Sequence 36, Appl
c 130	16.4	1.1	20	4	US-09-517-584A-13	Sequence 13, Appl	c 203	15.6	1.1	27	3	US-09-167-354-2	Sequence 2, Appl
c 131	16.4	1.1	27	1	US-08-758-306-42	Sequence 42, Appl	c 204	15.6	1.1	27	3	US-09-105-907-4	Sequence 4, Appl
c 132	16.4	1.1	28	1	US-07-977-696C-3	Sequence 3, Appl	c 205	15.6	1.1	27	4	US-09-196-387-5	Sequence 5, Appl
c 133	16.4	1.1	28	1	US-08-129-930B-3	Sequence 3, Appl	c 206	15.6	1.1	30	1	US-09-578-378-4	Sequence 4, Appl
c 134	16.4	1.1	28	4	US-08-976-288A-3	Sequence 3, Appl	c 207	15.6	1.1	30	1	US-08-049-283A-17	Sequence 17, Appl
c 135	16.4	1.1	29	3	US-09-248-571-7	Sequence 7, Appl	c 208	15.6	1.1	30	1	US-08-242-664-43	Sequence 43, Appl
c 136	16.4	1.1	29	3	US-09-248-571-18	Sequence 18, Appl	c 209	15.6	1.1	30	1	US-08-484-138-43	Sequence 43, Appl
c 137	16.2	1.1	23	1	US-07-722-798A-50	Sequence 50, Appl	c 210	15.6	1.1	30	2	US-08-716-317-3	Sequence 3, Appl
c 138	16.2	1.1	23	2	US-08-303-569B-2	Sequence 2, Appl	c 211	15.6	1.1	30	5	PCT-US95-06379-43	Sequence 43, Appl
c 139	16.2	1.1	23	2	US-08-070-116A-16	Sequence 16, Appl	c 212	15.6	1.1	30	5	PCT-US95-07372-3	Sequence 3, Appl
c 140	16.2	1.1	23	2	US-08-116-247-2	Sequence 2, Appl	c 213	15.4	1.1	18	2	US-09-205-860-10	Sequence 10, Appl
c 141	16.2	1.1	24	2	US-08-677-734A-5	Sequence 5, Appl	c 214	15.4	1.1	18	2	US-08-857-946-8	Sequence 8, Appl
c 142	16.2	1.1	30	1	US-08-479-487-65	Sequence 65, Appl	c 215	15.4	1.1	18	3	US-08-970-740-8	Sequence 8, Appl
c 143	16.2	1.1	30	1	US-08-440-787A-61	Sequence 61, Appl	c 216	15.4	1.1	18	4	US-08-679-645-1167	Sequence 1167, Ap
c 144	16.2	1.1	30	2	US-08-422-333-28	Sequence 28, Appl	c 217	15.4	1.1	20	2	US-08-465-485A-28	Sequence 28, Appl
c 145	16.2	1.1	30	4	US-08-367-685-61	Sequence 61, Appl	c 218	15.4	1.1	20	3	US-09-080-285-28	Sequence 28, Appl
c 146	16.2	1.1	30	5	PCT-US91-07141-61	Sequence 61, Appl	c 219	15.4	1.1	22	2	US-08-410-654B-33	Sequence 33, Appl
c 147	16	1.1	17	3	US-08-909-742-3	Sequence 3, Appl	c 220	15.4	1.1	22	2	US-08-474-851-33	Sequence 33, Appl
c 148	16	1.1	17	3	US-08-909-742-4	Sequence 4, Appl	c 221	15.4	1.1	22	2	US-08-481-560-33	Sequence 33, Appl
c 149	16	1.1	17	4	US-09-412-289-3	Sequence 3, Appl	c 222	15.4	1.1	24	2	US-08-863-639A-27	Sequence 27, Appl
c 150	16	1.1	17	4	US-09-412-289-4	Sequence 4, Appl	c 223	15.4	1.1	25	1	US-07-952-817-29	Sequence 29, Appl
c 151	16	1.1	18	4	US-08-679-645-1165	Sequence 1165, Ap	c 224	15.4	1.1	25	2	US-08-896-410-17	Sequence 17, Appl
c 152	16	1.1	24	1	US-08-486-421-51	Sequence 51, Appl	c 225	15.4	1.1	26	1	US-08-623-891-40	Sequence 40, Appl
c 153	16	1.1	24	1	US-08-470-911-51	Sequence 51, Appl	c 226	15.4	1.1	27	1	US-08-409-199-9	Sequence 9, Appl
c 154	16	1.1	24	2	US-08-486-809-51	Sequence 51, Appl	c 227	15.4	1.1	27	1	US-08-758-306-1028	Sequence 1028, Ap
c 155	16	1.1	24	5	PCT-US93-00321-1	Sequence 1, Appl	c 228	15.4	1.1	27	4	US-08-584-040-4921	Sequence 4921, Ap
c 156	16	1.1	24	5	PCT-US93-00321-2	Sequence 2, Appl	c 229	15.4	1.1	27	4	US-08-026-143B-43	Sequence 43, Appl
c 157	16	1.1	24	5	PCT-US93-00321-3	Sequence 3, Appl	c 230	15.4	1.1	27	5	PCT-US92-10621-43	Sequence 43, Appl
c 158	16	1.1	24	5	PCT-US93-00321-4	Sequence 4, Appl	c 231	15.4	1.1	27	5	PCT-US94-02233-43	Sequence 43, Appl
c 159	16	1.1	25	1	US-08-155-746-14	Sequence 14, Appl	c 232	15.4	1.1	29	1	US-08-136-119-24	Sequence 24, Appl
c 160	16	1.1	25	1	US-08-341-148-16	Sequence 16, Appl	c 233	15.4	1.1	30	1	US-07-931-473B-25	Sequence 25, Appl
c 161	16	1.1	25	5	PCT-US94-00771-14	Sequence 14, Appl	c 234	15.4	1.1	30	1	US-07-734-225A-37	Sequence 37, Appl
c 162	16	1.1	25	5	PCT-US94-14096-16	Sequence 16, Appl	c 235	15.4	1.1	30	1	US-07-692-995B-37	Sequence 37, Appl
c 163	16	1.1	26	1	US-08-608-881A-10	Sequence 10, Appl	c 236	15.4	1.1	30	1	US-08-106-761-5	Sequence 5, Appl
c 164	16	1.1	27	1	US-07-989-845-5	Sequence 5, Appl	c 237	15.4	1.1	30	1	US-07-714-131C-25	Sequence 25, Appl
c 165	16	1.1	27	4	US-09-219-337-6	Sequence 6, Appl	c 238	15.4	1.1	30	1	US-08-412-110-25	Sequence 25, Appl
c 166	16	1.1	27	4	US-08-584-040-3643	Sequence 3643, Ap	c 239	15.4	1.1	30	1	US-08-409-442A-25	Sequence 25, Appl
c 167	16	1.1	27	4	US-08-584-040-5051	Sequence 5051, Ap	c 240	15.4	1.1	30	1	US-08-474-587-8	Sequence 8, Appl
c 168	16	1.1	27	5	PCT-US93-11298-5	Sequence 5, Appl	c 241	15.4	1.1	30	1	US-08-488-457-37	Sequence 37, Appl
c 169	16	1.1	28	4	US-09-283-144-5	Sequence 5, Appl	c 242	15.4	1.1	30	1	US-08-324-243-9	Sequence 9, Appl
c 170	16	1.1	30	4	US-08-974-549A-547	Sequence 547, App	c 243	15.4	1.1	30	1	US-08-532-390-9	Sequence 9, Appl
c 171	15.8	1.1	20	3	US-08-837-201C-75	Sequence 75, Appl	c 244	15.4	1.1	30	2	US-08-469-609A-25	Sequence 25, Appl
c 172	15.8	1.1	20	3	US-08-914-961-2	Sequence 2, Appl	c 245	15.4	1.1	30	3	US-09-143-190-25	Sequence 25, Appl
c 173	15.8	1.1	20	4	US-09-101-886B-15	Sequence 15, Appl	c 246	15.4	1.1	30	3	US-08-717-294-9	Sequence 9, Appl

333	14.8	1.0	29	2	US-08-469-609A-32	Sequence 32, Appl	c 466	14.6	1.0	27	3	US-08-567-200A-31	Sequence 31, Appl
334	14.8	1.0	29	2	US-08-256-426B-241	Sequence 241, Appl	c 467	14.6	1.0	27	3	US-08-985-162-1436	Sequence 1537, Ap
335	14.8	1.0	29	2	US-08-599-455B-12	Sequence 12, Appl	c 468	14.6	1.0	27	3	US-08-985-162-1537	Sequence 1537, Ap
336	14.8	1.0	29	3	US-09-143-130-32	Sequence 32, Appl	c 469	14.6	1.0	27	3	US-08-691-794-34	Sequence 34, Appl
337	14.8	1.0	29	4	US-08-804-372A-26	Sequence 26, Appl	c 470	14.6	1.0	27	4	US-08-776-971-41	Sequence 41, Appl
338	14.8	1.0	29	4	US-08-804-372A-28	Sequence 28, Appl	c 471	14.6	1.0	27	4	US-08-584-040-6840	Sequence 6840, Ap
339	14.8	1.0	29	4	US-09-061-048-1	Sequence 1, Appl	c 472	14.6	1.0	27	4	US-08-584-040-7055	Sequence 2, Appl
400	14.8	1.0	29	4	US-09-069-781B-12	Sequence 12, Appl	c 473	14.6	1.0	28	1	US-08-750-077-2	Sequence 17, Appl
401	14.8	1.0	30	5	PCT-US93-04384-24	Sequence 24, Appl	c 474	14.6	1.0	28	2	US-08-622-740-17	Sequence 1117, Ap
402	14.8	1.0	30	1	US-07-646-998A-19	Sequence 19, Appl	c 475	14.6	1.0	28	2	US-08-859-998-1117	Sequence 17, Appl
403	14.8	1.0	30	1	US-07-989-160-6	Sequence 6, Appl	c 476	14.6	1.0	28	3	US-08-440-689-17	Sequence 17, Appl
404	14.8	1.0	30	1	US-08-361-920-71	Sequence 71, Appl	c 477	14.6	1.0	28	3	US-08-995-451-2	Sequence 2, Appl
405	14.8	1.0	30	1	US-08-094-128A-19	Sequence 19, Appl	c 478	14.6	1.0	28	4	US-09-312-285-11	Sequence 11, Appl
406	14.8	1.0	30	1	US-08-442-134A-6	Sequence 6, Appl	c 479	14.6	1.0	28	4	US-09-312-066-13	Sequence 13, Appl
407	14.8	1.0	30	1	US-08-444-581B-6	Sequence 6, Appl	c 480	14.6	1.0	28	4	US-09-312-238-13	Sequence 13, Appl
408	14.8	1.0	30	1	US-08-455-67A-19	Sequence 19, Appl	c 481	14.6	1.0	28	4	US-09-122-399-17	Sequence 17, Appl
409	14.8	1.0	30	1	US-08-455-992-19	Sequence 19, Appl	c 482	14.6	1.0	28	4	US-09-225-928-1117	Sequence 1117, Ap
410	14.8	1.0	30	1	US-08-455-972-19	Sequence 19, Appl	c 483	14.6	1.0	29	1	US-07-640-476-22	Sequence 22, Appl
411	14.8	1.0	30	1	US-08-479-939-71	Sequence 71, Appl	c 484	14.6	1.0	29	1	US-08-118-101A-14	Sequence 14, Appl
412	14.8	1.0	30	1	US-08-446-088A-6	Sequence 6, Appl	c 485	14.6	1.0	29	1	US-08-362-670B-21	Sequence 21, Appl
413	14.8	1.0	30	1	US-08-483-432-71	Sequence 71, Appl	c 486	14.6	1.0	29	1	US-08-306-871-23	Sequence 23, Appl
414	14.8	1.0	30	1	US-08-814-052-32	Sequence 32, Appl	c 487	14.6	1.0	29	1	US-08-569-959-23	Sequence 23, Appl
415	14.8	1.0	30	3	US-08-812-829-24	Sequence 24, Appl	c 488	14.6	1.0	29	3	US-08-757-024-614	Sequence 614, App
416	14.8	1.0	30	3	US-08-252-436-39	Sequence 39, Appl	c 489	14.6	1.0	29	3	US-08-333-576C-21	Sequence 21, Appl
417	14.8	1.0	30	4	US-08-647-924-8	Sequence 8, Appl	c 490	14.6	1.0	29	3	US-09-121-321-14	Sequence 14, Appl
418	14.8	1.0	30	4	US-09-630-377-4	Sequence 4, Appl	c 491	14.6	1.0	29	4	US-08-944-604-22	Sequence 22, Appl
419	14.8	1.0	30	4	US-09-042-071-32	Sequence 32, Appl	c 492	14.6	1.0	29	4	US-08-933-803A-14	Sequence 14, Appl
420	14.8	1.0	30	4	US-08-696-932A-33	Sequence 33, Appl	c 493	14.6	1.0	29	4	US-08-808-324-21	Sequence 21, Appl
421	14.8	1.0	30	5	PCT-US92-00652-19	Sequence 19, Appl	c 494	14.6	1.0	29	4	US-09-099-301-14	Sequence 14, Appl
422	14.8	1.0	30	5	PCT-US95-02689-27	Sequence 27, Appl	c 495	14.6	1.0	29	5	PCT-US91-05808-4	Sequence 4, Appl
423	14.8	1.0	30	5	PCT-US95-02689-43	Sequence 43, Appl	c 496	14.6	1.0	29	5	PCT-US94-14030A-21	Sequence 21, Appl
424	14.6	1.0	21	1	US-08-211-202-24	Sequence 24, Appl	c 497	14.6	1.0	29	5	PCT-US94-14030A-21	Sequence 21, Appl
425	14.6	1.0	21	1	US-08-233-030-41	Sequence 41, Appl	c 498	14.6	1.0	29	6	5168053-5	Patent No. 5168053
426	14.6	1.0	21	1	US-08-653-127C-1	Sequence 1, Appl	c 499	14.6	1.0	29	6	5202236-10	Patent No. 5202236
427	14.6	1.0	21	1	US-08-624-545-22	Sequence 22, Appl	c 500	14.6	1.0	30	1	US-08-208-486-73	Sequence 73, Appl
428	14.6	1.0	21	2	US-08-898-636-1	Sequence 1, Appl	c 501	14.6	1.0	30	1	US-08-083-948-11	Sequence 11, Appl
429	14.6	1.0	21	2	US-08-390-353A-18	Sequence 18, Appl	c 502	14.6	1.0	30	1	US-08-393-785-11	Sequence 11, Appl
430	14.6	1.0	21	4	US-09-115-446-14	Sequence 14, Appl	c 503	14.6	1.0	30	1	US-08-475-694-11	Sequence 11, Appl
431	14.6	1.0	21	4	US-09-115-446-14	Sequence 14, Appl	c 504	14.6	1.0	30	1	US-08-306-870-6	Sequence 6, Appl
432	14.6	1.0	21	4	US-09-115-446-14	Sequence 14, Appl	c 505	14.6	1.0	30	1	US-08-304-051-2	Sequence 2, Appl
433	14.6	1.0	21	4	US-08-803-346-25	Sequence 25, Appl	c 506	14.6	1.0	30	1	US-08-495-743-57	Sequence 57, Appl
434	14.6	1.0	21	4	US-09-423-890-31	Sequence 31, Appl	c 507	14.6	1.0	30	1	US-08-386-579-8	Sequence 8, Appl
435	14.6	1.0	22	2	US-08-267-803B-23	Sequence 23, Appl	c 508	14.6	1.0	30	1	US-08-244-376-5	Sequence 5, Appl
436	14.6	1.0	22	3	US-08-322-679-1	Sequence 1, Appl	c 509	14.6	1.0	30	1	US-08-246-982A-4	Sequence 4, Appl
437	14.6	1.0	22	3	US-08-792-108A-4	Sequence 4, Appl	c 510	14.6	1.0	30	1	US-08-453-265-4	Sequence 4, Appl
438	14.6	1.0	22	3	US-08-686-993A-13	Sequence 13, Appl	c 511	14.6	1.0	30	1	US-08-495-739-57	Sequence 57, Appl
439	14.6	1.0	23	3	US-08-318-794-9	Sequence 9, Appl	c 512	14.6	1.0	30	1	US-08-495-741-57	Sequence 57, Appl
440	14.6	1.0	23	4	US-09-139-617-17	Sequence 17, Appl	c 513	14.6	1.0	30	1	US-08-712-057-11	Sequence 11, Appl
441	14.6	1.0	23	4	US-08-470-106-9	Sequence 9, Appl	c 514	14.6	1.0	30	2	US-08-473-020A-18	Sequence 18, Appl
442	14.6	1.0	24	1	US-07-971-101-1	Sequence 1, Appl	c 515	14.6	1.0	30	2	US-08-428-257A-11	Sequence 11, Appl
443	14.6	1.0	24	1	US-08-152-482-4	Sequence 4, Appl	c 516	14.6	1.0	30	3	US-08-814-052-39	Sequence 39, Appl
444	14.6	1.0	24	1	US-08-544-577-4	Sequence 4, Appl	c 517	14.6	1.0	30	3	US-08-812-829-31	Sequence 31, Appl
445	14.6	1.0	24	3	US-09-035-190-4	Sequence 4, Appl	c 518	14.6	1.0	30	3	US-08-812-829-31	Sequence 31, Appl
446	14.6	1.0	24	3	US-09-108-099-4	Sequence 4, Appl	c 519	14.6	1.0	30	3	US-08-757-024-613	Sequence 589, App
447	14.6	1.0	24	3	US-09-108-100-4	Sequence 4, Appl	c 520	14.6	1.0	30	3	US-08-757-024-613	Sequence 613, App
448	14.6	1.0	24	3	US-08-557-210A-27	Sequence 27, Appl	c 521	14.6	1.0	30	3	US-08-444-818-190	Sequence 190, App
449	14.6	1.0	24	4	US-08-868-373-17	Sequence 17, Appl	c 522	14.6	1.0	30	4	US-08-062-023-57	Sequence 57, Appl
450	14.6	1.0	24	4	US-08-868-373-17	Sequence 17, Appl	c 523	14.6	1.0	30	4	US-08-062-023-57	Sequence 57, Appl
451	14.6	1.0	25	1	PCT-US94-13041-4	Sequence 4, Appl	c 524	14.6	1.0	30	5	PCT-US93-11527-5	Sequence 5, Appl
452	14.6	1.0	25	1	US-08-458-084-14	Sequence 14, Appl	c 525	14.6	1.0	30	5	PCT-US94-09700-21	Sequence 21, Appl
453	14.6	1.0	25	1	US-08-205-508-14	Sequence 14, Appl	c 526	14.6	1.0	30	5	PCT-US95-11445-2	Sequence 2, Appl
454	14.6	1.0	25	2	US-08-683-262B-2	Sequence 2, Appl	c 527	14.4	1.0	16	3	PCT-US96-01807-8	Sequence 8, Appl
455	14.6	1.0	25	4	US-09-393-554-19	Sequence 19, Appl	c 528	14.4	1.0	16	3	US-08-911-894-13	Sequence 13, Appl
456	14.6	1.0	25	4	US-09-361-707-2	Sequence 2, Appl	c 529	14.4	1.0	17	3	US-08-911-894-14	Sequence 14, Appl
457	14.6	1.0	25	4	US-08-949-155-9	Sequence 9, Appl	c 530	14.4	1.0	17	3	US-08-538-666-27	Sequence 27, Appl
458	14.6	1.0	25	5	PCT-US95-02945-14	Sequence 14, Appl	c 531	14.4	1.0	20	1	US-08-363-233B-4	Sequence 4, Appl
459	14.6	1.0	26	1	US-08-153-051B-35	Sequence 35, Appl	c 532	14.4	1.0	20	3	US-08-923-454A-38	Sequence 38, Appl
460	14.6	1.0	26	1	US-08-060-952C-25	Sequence 25, Appl	c 533	14.4	1.0	20	4	US-09-467-082-14	Sequence 14, Appl
461	14.6	1.0	26	2	US-08-151-477A-35	Sequence 35, Appl	c 534	14.4	1.0	21	4	US-08-943-731-656	Sequence 656, App
462	14.6	1.0	26	2	US-08-859-998-980	Sequence 980, App	c 535	14.4	1.0	21	4	US-08-178-450-10	Sequence 10, Appl
463	14.6	1.0	26	3	US-08-819-867-13	Sequence 13, Appl	c 536	14.4	1.0	21	5	PCT-US94-0963A-9	Sequence 9, Appl
464	14.6	1.0	26	4	US-09-153-152-1	Sequence 1, Appl	c 537	14.4	1.0	22	1	US-08-471-724-34	Sequence 34, Appl
465	14.6	1.0	26	4	US-09-225-928-980	Sequence 980, App	c 538	14.4	1.0	22	2	US-08-471-969-34	Sequence 34, Appl
466	14.6	1.0	27	2	US-08-520-933-8	Sequence 8, Appl	c 539	14.4	1.0	22	2	US-08-384-137-34	Sequence 34, Appl

c 685	14.2	1.0	23	4	US-09-085-476-12	Sequence 12, Appl	c 758	14.2	1.0	28	2	US-08-859-998-1118	Sequence 1118, Ap
c 686	14.2	1.0	23	4	US-09-564-805-196	Sequence 136, App	c 759	14.2	1.0	28	3	US-09-118-841B-22	Sequence 22, Appl
c 687	14.2	1.0	23	4	US-09-617-871-15	Sequence 15, Appl	c 760	14.2	1.0	28	3	US-08-872-855-18	Sequence 18, Appl
c 688	14.2	1.0	23	5	PCT-US93-06751-130	Sequence 130, App	c 761	14.2	1.0	28	4	US-09-414-439-22	Sequence 22, Appl
c 689	14.2	1.0	23	5	PCT-US94-05591-11	Sequence 11, Appl	c 762	14.2	1.0	28	4	US-09-225-928-707	Sequence 707, App
c 690	14.2	1.0	23	5	PCT-US94-05684-36	Sequence 36, Appl	c 763	14.2	1.0	28	4	US-09-225-928-979	Sequence 979, App
c 691	14.2	1.0	24	1	US-08-337-268A-17	Sequence 17, Appl	c 764	14.2	1.0	28	4	US-09-225-928-1118	Sequence 1118, Ap
c 692	14.2	1.0	24	1	US-08-196-218-33	Sequence 23, Appl	c 765	14.2	1.0	29	1	US-07-808-463A-3	Sequence 3, Appl
c 693	14.2	1.0	24	1	US-08-411-796-187	Sequence 187, App	c 766	14.2	1.0	29	1	US-08-442-411A-13	Sequence 13, Appl
c 694	14.2	1.0	24	1	US-08-423-383-68	Sequence 68, Appl	c 767	14.2	1.0	29	1	US-08-442-542-40	Sequence 40, Appl
c 695	14.2	1.0	24	1	US-08-681-953-23	Sequence 23, Appl	c 768	14.2	1.0	29	1	US-08-306-871-42	Sequence 42, Appl
c 696	14.2	1.0	24	1	US-08-686-716-5	Sequence 5, Appl	c 769	14.2	1.0	29	1	US-08-306-871-48	Sequence 48, Appl
c 697	14.2	1.0	24	1	US-08-656-716-9	Sequence 9, Appl	c 770	14.2	1.0	29	1	US-08-569-959-42	Sequence 42, Appl
c 698	14.2	1.0	24	1	US-08-656-716-29	Sequence 29, Appl	c 771	14.2	1.0	29	1	US-08-569-959-48	Sequence 48, Appl
c 699	14.2	1.0	24	1	US-08-656-716-31	Sequence 31, Appl	c 772	14.2	1.0	29	2	US-08-721-684C-3	Sequence 3, Appl
c 700	14.2	1.0	24	1	US-08-656-716-33	Sequence 33, Appl	c 773	14.2	1.0	29	2	US-09-005-970-3	Sequence 3, Appl
c 701	14.2	1.0	24	1	US-08-620-467A-35	Sequence 35, Appl	c 774	14.2	1.0	29	2	US-08-859-998-297	Sequence 237, App
c 702	14.2	1.0	24	1	US-08-484-570A-17	Sequence 17, Appl	c 775	14.2	1.0	29	3	US-08-765-469-40	Sequence 40, Appl
c 703	14.2	1.0	24	1	US-08-348-572-36	Sequence 36, Appl	c 776	14.2	1.0	29	4	US-08-686-968C-18	Sequence 18, Appl
c 704	14.2	1.0	24	1	US-08-437-353A-68	Sequence 68, Appl	c 777	14.2	1.0	29	4	US-09-407-715-3	Sequence 3, Appl
c 705	14.2	1.0	24	3	US-08-471-039-187	Sequence 187, App	c 778	14.2	1.0	29	4	US-09-225-928-297	Sequence 237, App
c 706	14.2	1.0	24	3	US-08-835-728D-5	Sequence 5, Appl	c 779	14.2	1.0	29	5	PCT-US94-12883-13	Sequence 13, Appl
c 707	14.2	1.0	24	3	US-08-835-728D-9	Sequence 9, Appl	c 780	14.2	1.0	30	1	US-07-718-274A-39	Sequence 39, Appl
c 708	14.2	1.0	24	3	US-08-835-728D-109	Sequence 109, Appl	c 781	14.2	1.0	30	1	US-08-149-106-39	Sequence 39, Appl
c 709	14.2	1.0	24	3	US-08-835-728D-113	Sequence 113, App	c 782	14.2	1.0	30	1	US-08-298-021-39	Sequence 39, Appl
c 710	14.2	1.0	24	3	US-08-987-326-11	Sequence 11, Appl	c 783	14.2	1.0	30	1	US-08-181-556-9	Sequence 9, Appl
c 711	14.2	1.0	24	3	US-08-559-205-39	Sequence 39, Appl	c 784	14.2	1.0	30	1	US-08-381-572-24	Sequence 24, Appl
c 712	14.2	1.0	24	3	US-09-041-090B-36	Sequence 36, Appl	c 785	14.2	1.0	30	1	US-08-261-206A-6	Sequence 6, Appl
c 713	14.2	1.0	24	3	US-09-335-409-28	Sequence 28, Appl	c 786	14.2	1.0	30	1	US-08-403-555-9	Sequence 9, Appl
c 714	14.2	1.0	24	4	US-09-123-951-5	Sequence 5, Appl	c 787	14.2	1.0	30	1	US-08-232-015-18	Sequence 18, Appl
c 715	14.2	1.0	24	4	US-09-123-951-9	Sequence 9, Appl	c 788	14.2	1.0	30	1	US-08-232-015-19	Sequence 19, Appl
c 716	14.2	1.0	24	4	US-09-123-951-29	Sequence 29, Appl	c 789	14.2	1.0	30	1	US-08-232-015-20	Sequence 20, Appl
c 717	14.2	1.0	24	4	US-09-123-951-31	Sequence 31, Appl	c 790	14.2	1.0	30	1	US-08-263-258-6	Sequence 6, Appl
c 718	14.2	1.0	24	4	US-09-123-951-33	Sequence 33, Appl	c 791	14.2	1.0	30	1	US-08-445-640-26	Sequence 26, Appl
c 719	14.2	1.0	24	4	US-09-430-558-5	Sequence 5, Appl	c 792	14.2	1.0	30	1	US-08-426-792-12	Sequence 12, Appl
c 720	14.2	1.0	24	4	US-09-430-558-9	Sequence 9, Appl	c 793	14.2	1.0	30	1	US-08-537-236-16	Sequence 16, Appl
c 721	14.2	1.0	24	4	US-09-490-558-109	Sequence 109, App	c 794	14.2	1.0	30	1	US-08-481-003-17	Sequence 17, Appl
c 722	14.2	1.0	24	4	US-09-490-558-113	Sequence 113, App	c 795	14.2	1.0	30	1	US-08-449-311A-1	Sequence 1, Appl
c 723	14.2	1.0	24	4	US-09-268-505B-1	Sequence 1, Appl	c 796	14.2	1.0	30	1	US-08-592-820-24	Sequence 24, Appl
c 724	14.2	1.0	24	4	US-09-568-102-28	Sequence 28, Appl	c 797	14.2	1.0	30	1	US-08-746-682A-16	Sequence 16, Appl
c 725	14.2	1.0	24	4	US-09-567-969-28	Sequence 28, Appl	c 798	14.2	1.0	30	1	US-08-458-568A-7	Sequence 7, Appl
c 726	14.2	1.0	24	4	US-09-568-480-28	Sequence 28, Appl	c 799	14.2	1.0	30	2	US-08-484-993B-37	Sequence 37, Appl
c 727	14.2	1.0	24	4	US-09-568-486-28	Sequence 28, Appl	c 800	14.2	1.0	30	2	US-08-117-952-629	Sequence 629, App
c 728	14.2	1.0	24	4	US-09-568-472-28	Sequence 28, Appl	c 801	14.2	1.0	30	2	US-08-882-083-5	Sequence 5, Appl
c 729	14.2	1.0	24	5	PCT-US93-11198-187	Sequence 187, App	c 802	14.2	1.0	30	2	US-08-558-107-5	Sequence 5, Appl
c 730	14.2	1.0	25	1	US-07-989-845-7	Sequence 7, Appl	c 803	14.2	1.0	30	2	US-09-038-227-20	Sequence 20, Appl
c 731	14.2	1.0	25	2	US-08-735-609-2	Sequence 2, Appl	c 804	14.2	1.0	30	2	US-08-484-158B-37	Sequence 37, Appl
c 732	14.2	1.0	25	2	US-08-735-609-2	Sequence 2, Appl	c 805	14.2	1.0	30	2	US-08-484-596A-37	Sequence 37, Appl
c 733	14.2	1.0	25	3	US-09-315-372-2	Sequence 2, Appl	c 806	14.2	1.0	30	2	US-08-480-150A-37	Sequence 37, Appl
c 734	14.2	1.0	25	3	US-09-244-752-2	Sequence 2, Appl	c 807	14.2	1.0	30	3	US-08-458-731-37	Sequence 37, Appl
c 735	14.2	1.0	25	3	US-09-245-497-2	Sequence 2, Appl	c 808	14.2	1.0	30	3	US-08-170-558-26	Sequence 26, Appl
c 736	14.2	1.0	25	5	PCT-US93-11298-7	Sequence 7, Appl	c 809	14.2	1.0	30	3	US-08-149-223A-37	Sequence 37, Appl
c 737	14.2	1.0	26	1	US-07-832-905B-92	Sequence 92, Appl	c 810	14.2	1.0	30	3	US-08-913-842-51	Sequence 51, Appl
c 738	14.2	1.0	26	2	US-08-700-757-92	Sequence 92, Appl	c 811	14.2	1.0	30	3	US-08-485-598-17	Sequence 17, Appl
c 739	14.2	1.0	26	2	US-08-859-998-994	Sequence 994, App	c 812	14.2	1.0	30	3	US-08-479-744A-35	Sequence 35, Appl
c 740	14.2	1.0	26	2	US-08-859-998-1219	Sequence 1219, App	c 813	14.2	1.0	30	3	US-08-447-314-26	Sequence 26, Appl
c 741	14.2	1.0	26	4	US-09-225-928-994	Sequence 994, App	c 814	14.2	1.0	30	3	US-08-445-461-26	Sequence 26, Appl
c 742	14.2	1.0	26	4	US-09-225-928-1219	Sequence 1219, Ap	c 815	14.2	1.0	30	3	US-08-557-210A-25	Sequence 25, Appl
c 743	14.2	1.0	27	1	US-08-208-486-71	Sequence 71, Appl	c 816	14.2	1.0	30	3	US-09-243-539-5	Sequence 5, Appl
c 744	14.2	1.0	27	2	US-08-778-487-19	Sequence 19, Appl	c 817	14.2	1.0	30	3	US-08-280-757B-35	Sequence 35, Appl
c 745	14.2	1.0	27	2	US-08-924-695A-23	Sequence 23, Appl	c 818	14.2	1.0	30	3	US-09-248-571-19	Sequence 19, Appl
c 746	14.2	1.0	27	3	US-08-951-923-31	Sequence 31, Appl	c 819	14.2	1.0	30	3	US-09-929-856-63	Sequence 63, Appl
c 747	14.2	1.0	27	3	US-08-985-162-1358	Sequence 1358, App	c 820	14.2	1.0	30	4	US-08-604-165-11	Sequence 11, Appl
c 748	14.2	1.0	27	3	US-08-891-516-19	Sequence 19, Appl	c 821	14.2	1.0	30	4	US-08-734-054B-11	Sequence 11, Appl
c 749	14.2	1.0	27	3	US-08-513-974B-90	Sequence 90, Appl	c 822	14.2	1.0	30	5	PCT-US93-12501-10	Sequence 10, Appl
c 750	14.2	1.0	27	3	US-08-837-034-19	Sequence 19, Appl	c 823	14.2	1.0	30	5	PCT-US93-17106A-1	Sequence 1, Appl
c 751	14.2	1.0	27	4	US-09-257-584-12	Sequence 12, Appl	c 824	14	1.0	18	3	US-08-717-291-10	Sequence 10, Appl
c 752	14.2	1.0	27	4	US-09-253-396A-177	Sequence 177, App	c 825	14	1.0	18	3	US-08-728-603-10	Sequence 10, Appl
c 753	14.2	1.0	27	4	US-09-253-396A-177	Sequence 177, App	c 826	14	1.0	19	4	US-09-338-907-530	Sequence 530, App
c 754	14.2	1.0	27	4	US-08-584-040-6603	Sequence 6603, Ap	c 827	14	1.0	19	4	US-09-338-907-532	Sequence 532, App
c 755	14.2	1.0	27	6	5187076-15	Patent No. 5187076	c 828	14	1.0	19	4	US-09-218-207-530	Sequence 530, App
c 756	14.2	1.0	28	2	US-08-859-998-707	Sequence 707, App	c 829	14	1.0	20	1	US-09-218-207-532	Sequence 532, App
c 757	14.2	1.0	28	2	US-08-859-998-979	Sequence 979, App	c 830	14	1.0	20	1	US-08-243-542-18	Sequence 18, Appl

831	14	1.0	20	1	US-08-477-407-18	Sequence 18, Appl	904	14	1.0	25	3	US-08-961-871-8	Sequence 8, Appl1
832	14	1.0	20	1	US-08-484-355-18	Sequence 18, Appl	c 905	14	1.0	25	3	US-08-469-318-104	Sequence 104, App
833	14	1.0	20	4	US-09-446-504-24	Sequence 24, Appl	c 906	14	1.0	25	3	US-08-468-609A-104	Sequence 104, App
834	14	1.0	20	4	US-09-712-266-24	Sequence 24, Appl	907	14	1.0	25	4	US-08-974-549A-471	Sequence 471, App
835	14	1.0	22	1	US-08-052-404-9	Sequence 9, Appl1	c 908	14	1.0	25	4	US-09-586-935-17	Sequence 17, Appl
836	14	1.0	22	1	US-08-479-156-9	Sequence 9, Appl1	c 909	14	1.0	25	4	US-08-822-516-4	Sequence 41, Appl
837	14	1.0	22	1	US-08-398-613A-2	Sequence 2, Appl1	c 910	14	1.0	25	4	US-09-007-678B-41	Sequence 41, Appl
838	14	1.0	22	1	US-08-398-613A-32	Sequence 32, Appl	c 911	14	1.0	25	5	PCT-US95-01185-104	Sequence 104, App
839	14	1.0	22	1	US-08-398-612A-2	Sequence 2, Appl1	912	14	1.0	26	1	US-08-261-206A-67	Sequence 67, Appl
840	14	1.0	22	1	US-08-398-612A-32	Sequence 32, Appl	913	14	1.0	26	1	US-08-476-634-3	Sequence 3, Appl1
841	14	1.0	22	1	US-08-398-611A-2	Sequence 2, Appl1	914	14	1.0	26	1	US-08-487-141B-42	Sequence 42, Appl
842	14	1.0	22	1	US-08-398-611A-32	Sequence 32, Appl	c 915	14	1.0	26	1	US-08-702-344-37	Sequence 37, Appl
843	14	1.0	22	1	US-08-396-851A-2	Sequence 2, Appl1	916	14	1.0	26	1	US-08-484-518-3	Sequence 3, Appl1
844	14	1.0	22	1	US-08-396-851A-32	Sequence 32, Appl	917	14	1.0	26	1	US-08-943-834-3	Sequence 42, Appl
845	14	1.0	22	2	US-08-491-334A-2	Sequence 2, Appl1	c 918	14	1.0	26	2	US-08-927-561-42	Sequence 42, Appl
846	14	1.0	22	4	US-08-491-334A-32	Sequence 32, Appl	919	14	1.0	26	2	US-08-726-012B-6	Sequence 6, Appl1
847	14	1.0	22	3	US-09-027-443-2	Sequence 2, Appl	920	14	1.0	26	2	US-08-859-998-832	Sequence 832, App
848	14	1.0	22	3	US-08-804-444A-2	Sequence 2, Appl1	c 921	14	1.0	26	2	US-08-859-998-1138	Sequence 1138, Ap
849	14	1.0	22	3	US-09-026-985-2	Sequence 2, Appl1	c 922	14	1.0	26	3	US-08-974-180-33	Sequence 33, Appl
850	14	1.0	22	4	US-08-161-674B-13	Sequence 13, Appl	923	14	1.0	26	4	US-09-522-217-46	Sequence 46, Appl
c 851	14	1.0	22	4	US-09-407-818-19	Sequence 19, Appl	c 924	14	1.0	26	4	US-09-134-218-8	Sequence 8, Appl1
852	14	1.0	23	1	US-08-343-428-2	Sequence 2, Appl1	925	14	1.0	26	4	US-09-225-928-832	Sequence 832, App
c 853	14	1.0	23	1	US-08-182-530-6	Sequence 6, Appl1	926	14	1.0	26	4	US-09-225-928-1138	Sequence 1138, Ap
854	14	1.0	23	1	US-08-307-619-49	Sequence 49, Appl	c 927	14	1.0	26	5	PCT-US96-09388-42	Sequence 42, Appl
c 855	14	1.0	23	1	US-08-050-058B-6	Sequence 6, Appl1	c 928	14	1.0	27	1	US-08-758-306-48	Sequence 48, Appl
c 856	14	1.0	23	1	US-08-463-587A-6	Sequence 6, Appl1	c 929	14	1.0	27	1	US-08-758-306-450	Sequence 450, App
c 857	14	1.0	23	2	US-08-446-345-20	Sequence 20, Appl	930	14	1.0	27	1	US-08-758-306-742	Sequence 742, App
c 858	14	1.0	23	2	US-08-463-667A-9	Sequence 9, Appl1	931	14	1.0	27	3	US-09-257-799-41	Sequence 41, Appl
c 859	14	1.0	23	2	US-08-441-871-10	Sequence 10, Appl	932	14	1.0	27	3	US-08-998-099-175	Sequence 175, App
860	14	1.0	23	2	US-08-350-260A-95	Sequence 95, Appl	933	14	1.0	27	3	US-08-920-919A-41	Sequence 41, Appl
c 861	14	1.0	23	2	US-08-350-260A-568	Sequence 568, App	c 934	14	1.0	27	4	US-08-485-355B-4	Sequence 4, Appl1
c 862	14	1.0	23	3	US-08-923-854-6	Sequence 6, Appl1	c 935	14	1.0	27	4	US-08-776-971-86	Sequence 86, Appl
c 863	14	1.0	23	3	US-09-050-783-49	Sequence 49, Appl	c 936	14	1.0	27	4	US-09-006-353A-19	Sequence 19, Appl
c 864	14	1.0	23	4	US-08-978-321-2	Sequence 2, Appl1	937	14	1.0	27	4	US-09-142-481-7	Sequence 7, Appl1
c 865	14	1.0	23	4	US-08-766-528-24	Sequence 24, Appl	938	14	1.0	27	4	US-08-584-040-3502	Sequence 3502, Ap
866	14	1.0	23	4	US-08-766-528-25	Sequence 25, Appl	939	14	1.0	27	4	US-08-584-040-4707	Sequence 4707, Ap
c 867	14	1.0	23	4	US-09-018-584A-143	Sequence 143, App	c 940	14	1.0	27	4	US-08-584-040-5229	Sequence 5229, Ap
c 868	14	1.0	23	5	PCT-US91-09133-6	Sequence 6, Appl1	941	14	1.0	27	4	US-08-584-040-6667	Sequence 6667, Ap
c 869	14	1.0	24	1	US-07-977-284A-73	Sequence 73, Appl	c 942	14	1.0	27	4	US-08-584-040-6975	Sequence 6975, Ap
c 870	14	1.0	24	1	US-08-331-398A-5	Sequence 5, Appl1	943	14	1.0	27	4	US-09-194-285-35	Sequence 35, Appl
871	14	1.0	24	1	US-08-423-383-68	Sequence 68, Appl	944	14	1.0	28	1	US-08-066-961-9	Sequence 9, Appl1
c 872	14	1.0	24	1	US-08-620-467A-35	Sequence 35, Appl	945	14	1.0	28	1	US-08-704-398-5	Sequence 5, Appl1
c 873	14	1.0	24	1	US-08-912-976-4	Sequence 4, Appl1	c 946	14	1.0	28	1	US-08-137-117B-23	Sequence 23, Appl
874	14	1.0	24	1	US-08-348-572-36	Sequence 36, Appl	c 947	14	1.0	28	1	US-08-436-717-23	Sequence 23, Appl
875	14	1.0	24	1	US-08-586-272-16	Sequence 16, Appl	c 948	14	1.0	28	2	US-08-553-501A-25	Sequence 25, Appl
876	14	1.0	24	1	US-08-437-353A-68	Sequence 68, Appl	c 949	14	1.0	28	2	US-08-765-783A-25	Sequence 25, Appl
c 877	14	1.0	24	2	US-08-529-190B-2	Sequence 2, Appl1	950	14	1.0	28	3	US-08-850-961-33	Sequence 33, Appl
878	14	1.0	24	2	US-08-529-190B-4	Sequence 4, Appl1	c 951	14	1.0	28	3	US-08-921-100-25	Sequence 25, Appl
879	14	1.0	24	2	US-08-545-562A-33	Sequence 33, Appl	c 952	14	1.0	28	3	US-08-880-142-25	Sequence 25, Appl
c 880	14	1.0	24	2	US-08-520-678A-26	Sequence 26, Appl	c 953	14	1.0	28	3	US-08-902-201-25	Sequence 25, Appl
c 881	14	1.0	24	2	US-08-256-426B-73	Sequence 73, Appl	954	14	1.0	28	3	US-08-846-020A-2	Sequence 2, Appl1
882	14	1.0	24	2	US-08-596-319-21	Sequence 21, Appl	c 955	14	1.0	28	3	US-09-205-231-25	Sequence 25, Appl
c 883	14	1.0	24	2	US-08-331-397B-5	Sequence 5, Appl1	c 956	14	1.0	28	4	US-09-414-010-8	Sequence 8, Appl1
c 884	14	1.0	24	2	US-08-759-804A-5	Sequence 5, Appl1	c 957	14	1.0	28	4	US-08-646-265A-25	Sequence 25, Appl
885	14	1.0	24	3	US-09-082-969-16	Sequence 16, Appl	c 958	14	1.0	28	4	US-09-416-557-25	Sequence 25, Appl
886	14	1.0	24	3	US-08-559-205-39	Sequence 39, Appl	959	14	1.0	28	4	US-09-479-776-33	Sequence 33, Appl
887	14	1.0	24	3	US-08-466-368-18	Sequence 18, Appl	960	14	1.0	28	4	PCT-US95-05966-5	Sequence 5, Appl1
888	14	1.0	24	3	US-09-041-090B-36	Sequence 36, Appl	961	14	1.0	28	5	US-08-822-999-8	Sequence 8, Appl1
889	14	1.0	24	4	US-09-327-229-3	Sequence 3, Appl1	962	14	1.0	29	4	US-08-822-999-8	Sequence 8, Appl1
c 890	14	1.0	24	4	US-09-018-584A-96	Sequence 96, Appl	c 963	14	1.0	30	1	US-07-931-473B-27	Sequence 27, Appl
c 891	14	1.0	24	4	US-09-227-693-5	Sequence 5, Appl1	c 964	14	1.0	30	1	US-08-361-920-74	Sequence 74, Appl
c 892	14	1.0	24	4	US-08-897-126-26	Sequence 26, Appl	c 965	14	1.0	30	1	US-07-714-131C-27	Sequence 27, Appl
893	14	1.0	24	4	US-08-339-214-60	Sequence 60, Appl	966	14	1.0	30	1	US-08-428-1370A-12	Sequence 12, Appl
894	14	1.0	24	5	PCT-US95-12608-3	Sequence 3, Appl1	967	14	1.0	30	1	US-08-261-206A-61	Sequence 61, Appl
c 895	14	1.0	25	1	US-08-182-961B-41	Sequence 41, Appl	968	14	1.0	30	1	US-08-220-606B-18	Sequence 18, Appl
c 896	14	1.0	25	1	US-08-297-805-1	Sequence 1, Appl1	969	14	1.0	30	1	US-08-220-606B-21	Sequence 21, Appl
c 897	14	1.0	25	2	US-08-410-654B-48	Sequence 48, Appl	c 970	14	1.0	30	1	US-08-232-015-9	Sequence 9, Appl1
c 898	14	1.0	25	2	US-08-474-851-48	Sequence 48, Appl	c 971	14	1.0	30	1	US-08-232-015-16	Sequence 16, Appl
c 899	14	1.0	25	2	US-08-481-560-48	Sequence 48, Appl	c 972	14	1.0	30	1	US-08-232-015-17	Sequence 17, Appl
c 900	14	1.0	25	2	US-08-743-637B-88	Sequence 88, Appl	c 973	14	1.0	30	1	US-08-495-743-60	Sequence 60, Appl
c 901	14	1.0	25	3	US-08-526-840B-88	Sequence 88, Appl	c 974	14	1.0	30	1	US-08-412-110-27	Sequence 27, Appl
c 902	14	1.0	25	3	US-08-748-130-29	Sequence 29, Appl	c 975	14	1.0	30	1	US-08-479-939-74	Sequence 74, Appl
c 903	14	1.0	25	3	US-08-961-871-6	Sequence 6, Appl1	c 976	14	1.0	30	1	US-08-442-542-39	Sequence 39, Appl

c 977	14	1.0	30	1	US-08-409-442A-27
c 978	14	1.0	30	1	US-08-495-739-60
c 979	14	1.0	30	1	US-08-495-741-60
c 980	14	1.0	30	1	US-08-483-432-74
c 981	14	1.0	30	1	US-08-538-875-60
c 982	14	1.0	30	1	US-08-461-773-9
c 983	14	1.0	30	2	US-08-469-609A-27
c 984	14	1.0	30	2	US-08-600-764-12
c 985	14	1.0	30	2	US-08-428-257A-3
c 986	14	1.0	30	2	US-08-068-729-1
c 987	14	1.0	30	2	US-08-943-915-21
c 988	14	1.0	30	2	US-08-594-452-43
c 989	14	1.0	30	3	US-08-974-022-15
c 990	14	1.0	30	3	US-09-255-671-1
c 991	14	1.0	30	3	US-08-884-324-22
c 992	14	1.0	30	3	US-09-129-740-15
c 993	14	1.0	30	3	US-08-765-469-39
c 994	14	1.0	30	3	US-08-775-414-62
c 995	14	1.0	30	3	US-08-749-522-7
c 996	14	1.0	30	3	US-08-928-805-4
c 997	14	1.0	30	3	US-09-143-190-27
c 998	14	1.0	30	3	US-09-258-408-43
c 999	14	1.0	30	3	US-09-195-666A-40
c 1000	14	1.0	30	3	US-09-195-666A-41

ALIGNMENTS

```

1
RESULT
US-08-859-998-1206/c
Sequence 1206, Application US/08859998
Patent No. 5994076
GENERAL INFORMATION:
APPLICANT: Chenchik, Alex
APPLICANT: Jokhadze, George
APPLICANT: Bibilashvili, Robert
TITLE OF INVENTION: METHOD OF ASSAYING DIFFERENTIAL
TITLE OF INVENTION: EXPRESSION
NUMBER OF SEQUENCES: 1375
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 2200 Sand Hill Road, Suite 100
CITY: Menlo Park
STATE: CA
COUNTRY: US
ZIP: 94025
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,998
FILING DATE: 21-MAY-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Field, Bret E.
REGISTRATION NUMBER: 37,620
REFERENCE/DOCKET NUMBER: 09096/002001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-322-5070
TELEFAX: 415-854-0875
INFORMATION FOR SEQ ID NO: 1206:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA

```


RESULT 6
US-09-143-212-2
; Sequence 2, Application US/09143212B
; Patent No. 6077672
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia and Lex M. Cowser
; TITLE OF INVENTION: ANTISENSE MODULATION OF TRADD EXPRESSION
; FILE REFERENCE: RTS-0005
; CURRENT APPLICATION NUMBER: US/09/143,212B
; CURRENT FILING DATE: 1998-08-28
; NUMBER OF SEQ ID NOS: 87
; SEQ ID NO 2
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PCR Primer
US-09-143-212-2

Query Match 1.4%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.9e+04;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 440 acgaggagcgctgttgagt 459
|||||

Db 1 acgaggagcgctgttgagt 20

RESULT 7
US-08-068-747-2
; Sequence 2, Application US/08068747
; Patent No. 5695933
; GENERAL INFORMATION:
; APPLICANT: Schalling, Martin
; APPLICANT: Hudson, Thomas J.
; APPLICANT: Housman, David E.
; TITLE OF INVENTION: Direct Determination of Expanded
; TITLE OF INVENTION: Nucleotide Repeats in the Human Genome
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Millitia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/068,747
; FILING DATE: 28-May-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: MIT-6141
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-861-6240
; TELEFAX: 617-861-9540
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "Synthetic"
US-08-068-747-2

Query Match 1.4%; Score 20; DB 1; Length 30;
Best Local Similarity 82.1%; Pred. No. 3.1e+04;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 621 gccgcgcgcgcgcgcacactgcccag 648
|||||

Db 3 gccgcgcgcgcgcgcacactgcccag 30

RESULT 8
US-09-025-580-6/c
; Sequence 6, Application US/09025580
; Patent No. 6162613
; GENERAL INFORMATION:
; APPLICANT: Su, Michael Shin-San
; APPLICANT: Fox, Ted
; APPLICANT: Wilson, Keith Phillip
; APPLICANT: Germann, Ursula A.
; TITLE OF INVENTION: Methods For Designing Inhibitors of
; TITLE OF INVENTION: Serine/Threonine Kinases and Tyrosine Kinase
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Neave
; STREET: 1251 Avenue of the Americas
; CITY: New York
; STATE: NY
; COUNTRY: US
; ZIP: 10020
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/025,580
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Haley, James F.
; REGISTRATION NUMBER: 27,794
; REFERENCE/DOCKET NUMBER: VPI 97-104
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 596-9000
; TELEFAX: (212) 596-9090
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 28 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-09-025-580-6

Query Match 1.4%; Score 19.8; DB 4; Length 28;
Best Local Similarity 91.3%; Pred. No. 3.4e+04;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 621 gccgcgcgcgcgcgcacactg 643
|||||

Db 27 gccgcgcgcgcgcgcacactg 5

RESULT 9
US-08-863-639A-67
; Sequence 67, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.

```
;
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 67:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-67

Query Match 1.4%; Score 19.4; DB 2; Length 21;
Best Local Similarity 95.2%; Pred. No. 4e+04;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 621 gccgcgcgcgcgcgcgcgcacc 641
Db 1 GCCGCGCGCGCGCGCGCGCC 21

RESULT 10
US-08-863-639A-71/c
; Sequence 71, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
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;
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 71:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-71

Query Match 1.4%; Score 19.4; DB 2; Length 21;
Best Local Similarity 95.2%; Pred. No. 4e+04;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 621 gccgcgcgcgcgcgcgcgcacc 641
Db 21 GCCGCGCGCGCGCGCGCGCC 1

RESULT 11
US-08-416-214A-11/c
; Sequence 11, Application US/08416214A
; Patent No. 5998596
; GENERAL INFORMATION:
; APPLICANT: Bergan, Raymond; Neckers, Len
; TITLE OF INVENTION: Inhibition Of Protein
; TITLE OF INVENTION: Kinase Activity By Aptameric Action Of
; TITLE OF INVENTION: Oligonucleotides
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/416,214A
; FILING DATE: 04-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Brown, Kathryn M.
; REGISTRATION NUMBER: 34,556
; REFERENCE/DOCKET NUMBER: 2026-4166
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: Nucleic acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: Other nucleic acid
; HYPOTHETICAL: Yes
; ANTI-SENSE: No
; US-08-416-214A-11

Query Match 1.4%; Score 19.4; DB 2; Length 21;
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Best Local Similarity 95.2%; Pred. No. 4e+04; Mismatches 0; Gaps 0; Indels 1; Length 24;

QY 621 gccgcgcgcgcgcgcgcgc 641
Db 21 GCCGCCGCCGCCGCCGCCGCC 1

RESULT 12

US-08-570-155-17/c
; Sequence 17, Application US/08570155
; Patent No. 5962332
; GENERAL INFORMATION:
; APPLICANT: Singer, Robert H.
; APPLICANT: Taneja, Krishan L.
; TITLE OF INVENTION: DETECTION OF TRINUCLEOTIDE REPEATS
; TITLE OF INVENTION: BY IN SITU HYBRIDIZATION
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FISH & RICHARDSON P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version
; SOFTWARE: #1.30B
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/570,155
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/399,499
; FILING DATE: 07 March 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/214,823
; FILING DATE: 17 March 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul T.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 06353/011001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
US-08-570-155-17

Query Match 1.4%; Score 19.4; DB 2; Length 24;
Best Local Similarity 90.9%; Pred. No. 4.1e+04;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 620 agccgcgcgcgcgcgcgcgc 641
Db 24 ANCCGCCGCCGCCGCCGCCGCC 3

RESULT 13

US-08-374-144-3/c
; Sequence 3, Application US/08374144
; Patent No. 5629147
; GENERAL INFORMATION:

; APPLICANT: Arogenex, Inc.
; TITLE OF INVENTION: Enriching and Identifying Fetal Cells
; TITLE OF INVENTION: Maternal Blood For In Situ Hybridization
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Elman Wilf & Fried
; STREET: 20 West Third Street, P.O. Box 703
; CITY: Media
; STATE: PA
; COUNTRY: USA
; ZIP: 19063-8969
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch 720K diskette
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/374,144
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Gerry J. Elman
; REGISTRATION NUMBER: 24,404
; REFERENCE/DOCKET NUMBER: M19-085
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-892-9580
; TELEFAX: 610-892-9577
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 25 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-374-144-3

Query Match 1.4%; Score 19.4; DB 1; Length 25;
Best Local Similarity 95.2%; Pred. No. 4.1e+04;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 621 gccgcgcgcgcgcgcgcgc 641
Db 25 GCCGCCGCCGCCGCCGCCGCC 5

RESULT 14

US-08-775-164-3/c
; Sequence 3, Application US/08775164
; Patent No. 5766843
; GENERAL INFORMATION:
; APPLICANT: Arogenex, Inc.
; TITLE OF INVENTION: Enriching and Identifying Fetal Cells
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Elman & Associates
; STREET: 20 West Third Street, P.O. Box 1969
; CITY: Media
; STATE: PA
; COUNTRY: USA
; ZIP: 19063-8969
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch 720K diskette
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/775,164
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:

NAME: Gerry J. Elman
REGISTRATION NUMBER: 24,404
REFERENCE/DOCKET NUMBER: M19-103
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-892-9580
TELEFAX: 610-892-9577
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 25 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-775-164-3

Query Match 1.48; Score 19.4; DB 1; Length 25;
Best Local Similarity 95.2%; Pred. No. 4.1e+04;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 621 gccgccgccgccgccgccacc 641
|||||
Db 25 GCCGCCGCCGCCGCCGCC 5

RESULT 15

US-08-775-609-3/C
Sequence 3, Application US/08775609
Patent No. 5858649
GENERAL INFORMATION:
APPLICANT: Arogenex, Inc.
TITLE OF INVENTION: Enriching and Identifying Fetal Cells
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Elman & Associates
STREET: 20 West Third Street, P.O. Box 1969
CITY: Media
STATE: PA
COUNTRY: USA
ZIP: 19063-8969
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch 720K diskette
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08775.609
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Gerry J. Elman
REGISTRATION NUMBER: 24,404
REFERENCE/DOCKET NUMBER: M19-103
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-892-9580
TELEFAX: 610-892-9577
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 25 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-775-609-3

Query Match 1.48; Score 19.4; DB 2; Length 25;
Best Local Similarity 95.2%; Pred. No. 4.1e+04;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 621 gccgccgccgccgccgccacc 641
|||||
Db 25 GCCGCCGCCGCCGCCGCC 5
Search completed: August 18, 2002, 19:08:58
Job time: 6693 sec

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: August 18, 2002, 18:03:55 ; Search time 205.99 Seconds
(without alignments)
11960.640 Million cell updates/sec

Title: US-09-763-748-1
Perfect score: 1435
Sequence: 1 ctggcggcgctgggaaccca.....gataataagataaacagg 1435

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1736436 seqs, 858457221 residues
Total number of hits satisfying chosen parameters: 1662488

Minimum DB seq length: 0
Maximum DB seq length: 30

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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23: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT.*
24: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	ID	Description
C 1	22	1.5	22 21 AAZ93433	Reverse primer for
C 2	22	1.5	24 ABA04964	Human FD14 PCR pri
C 3	21.8	1.5	28 21 AAAG6342	Forward PCR primer
C 4	21	1.5	21 22 AAH62242	TNF receptor type
C 5	21	1.5	21 22 AAH62243	TNF receptor type
C 6	21	1.5	21 22 AAF97007	Human gene single
C 7	21	1.5	21 22 AAF97008	Human gene single
C 8	20.6	1.4	29 23 ABA02836	Human alpha-2CAR n
C 9	20	1.4	20 21 AAZ93432	Forward primer for

C 10	19.8	1.4	28 20 AAZ20940	Forward primer to
C 11	19.4	1.4	21 21 AAZ44349	Protein kinase inh
C 12	19.4	1.4	24 20 AAZ24999	Sense probe to Fra
C 13	19.4	1.4	25 15 AAQ55856	Fragile X probe.
C 14	19.4	1.4	25 16 AAQ85271	Probe for Fragile
C 15	19.4	1.4	25 20 AAQ05267	Fragile X chromoso
C 16	19	1.3	19 21 AAZ93434	Primer #1 for huma
C 17	18.8	1.3	25 17 AAT60340	Human NOV 10 probe
C 18	18.8	1.3	25 22 AAH75780	Target sequence fo
C 19	18.8	1.3	28 22 AAD06063	Murine Zif(C7)6-Ju
C 20	18.8	1.3	28 22 AAD06063	Unmethylated CpG d
C 21	18.4	1.3	20 19 AAU47686	CpG-N motif O-ODN
C 22	18.4	1.3	20 22 AAF99116	Immunostimulatory
C 23	18.4	1.3	24 20 AAZ24998	Antisense probe to
C 24	18.4	1.3	30 13 AAQ32898	Human apolipoprote
C 25	18.4	1.3	26 9 AAN82048	Probe O-CCR-26 for
C 26	18.2	1.3	18 21 AAZ93438	TRADD antisense ol
C 27	18	1.3	18 21 AAZ93439	TRADD antisense ol
C 28	18	1.3	18 21 AAZ93440	TRADD antisense ol
C 29	18	1.3	18 21 AAZ93441	TRADD antisense ol
C 30	18	1.3	18 21 AAZ93442	TRADD antisense ol
C 31	18	1.3	18 21 AAZ93443	TRADD antisense ol
C 32	18	1.3	18 21 AAZ93444	TRADD antisense ol
C 33	18	1.3	18 21 AAZ93445	TRADD antisense ol
C 34	18	1.3	18 21 AAZ93446	TRADD antisense ol
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C 36	18	1.3	18 21 AAZ93448	TRADD antisense ol
C 37	18	1.3	18 21 AAZ93449	TRADD antisense ol
C 38	18	1.3	18 21 AAZ93450	TRADD antisense ol
C 39	18	1.3	18 21 AAZ93451	TRADD antisense ol
C 40	18	1.3	18 21 AAZ93452	TRADD antisense ol
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C 42	18	1.3	18 21 AAZ93454	TRADD antisense ol
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C 44	18	1.3	18 21 AAZ93456	TRADD antisense ol
C 45	18	1.3	18 21 AAZ93457	TRADD antisense ol
C 46	18	1.3	18 21 AAZ93458	TRADD antisense ol
C 47	18	1.3	18 21 AAZ93459	TRADD antisense ol
C 48	18	1.3	18 21 AAZ93460	TRADD antisense ol
C 49	18	1.3	18 21 AAZ93461	TRADD antisense ol
C 50	18	1.3	18 21 AAZ93462	TRADD antisense ol
C 51	18	1.3	18 21 AAZ93463	TRADD antisense ol
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C 61	18	1.3	18 21 AAZ93473	TRADD antisense ol
C 62	18	1.3	18 21 AAZ93474	TRADD antisense ol
C 63	18	1.3	18 21 AAZ93475	TRADD antisense ol
C 64	18	1.3	18 21 AAZ93476	TRADD antisense ol
C 65	18	1.3	18 21 AAZ93477	TRADD antisense ol
C 66	18	1.3	18 21 AAZ93478	TRADD antisense ol
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C 71	18	1.3	18 21 AAZ93483	TRADD antisense ol
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C 77	18	1.3	18 21 AAZ93489	TRADD antisense ol
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C 80	18	1.3	18 21 AAZ93492	TRADD antisense ol
C 81	18	1.3	18 21 AAZ93493	TRADD antisense ol
C 82	18	1.3	18 21 AAZ93493	TRADD antisense ol

c 83	18	1.3	18	21	AA293494	TRADD antisense ol	156	16.6	1.2	24	14	AAQ52741	Sequence of probe
c 84	18	1.3	18	21	AA293495	TRADD antisense ol	157	16.6	1.2	24	14	AAQ35499	HIV-2 detection se
c 85	18	1.3	18	21	AA293496	TRADD antisense ol	158	16.6	1.2	24	18	AAQ89812	Oligonucleotide pr
c 86	18	1.3	18	21	AA293497	TRADD antisense ol	159	16.6	1.2	24	19	AAV36781	Nucleotide sequenc
c 87	18	1.3	18	21	AA293498	TRADD antisense ol	160	16.6	1.2	24	14	AAQ52208	Neuroblastoma spec
c 88	18	1.3	18	21	AA293499	TRADD antisense ol	161	16.6	1.2	29	16	AAQ01443	CHV gb gene 3' end
c 89	18	1.3	18	21	AA293500	TRADD antisense ol	162	16.6	1.2	29	21	AAA04534	Polymorphic fragme
c 90	18	1.3	18	21	AA293501	TRADD antisense ol	163	16.6	1.2	30	17	AAQ17164	Mycobacterium fort
c 91	18	1.3	18	21	AA293502	TRADD antisense ol	164	16.6	1.2	30	21	AAQ64546	Herpesvirus expres
c 92	18	1.3	18	21	AA293503	TRADD antisense ol	165	16.6	1.2	30	21	AAQ61428	PCR primer for DNA
c 93	18	1.3	18	21	AA293504	TRADD antisense ol	166	16.4	1.1	20	22	AAQ91298	Human E2F transcri
c 94	18	1.3	18	21	AA293505	TRADD antisense ol	167	16.4	1.1	26	22	AAQ16753	E.coli acetolactat
c 95	18	1.3	18	21	AA293506	TRADD antisense ol	168	16.4	1.1	27	19	AAV93906	Human IL-2 recepto
c 96	18	1.3	18	21	AA293507	TRADD antisense ol	169	16.4	1.1	27	19	AAV64059	Adenylate kinase P
c 97	18	1.3	18	21	AA293508	TRADD antisense ol	170	16.4	1.1	27	20	AAQ55593	PCR primer C. Syn
c 98	18	1.3	18	21	AA293509	TRADD antisense ol	171	16.4	1.1	27	20	AAQ31952	Primer M used in t
c 99	18	1.3	18	21	AA293510	TRADD antisense ol	172	16.4	1.1	27	21	AAQ29093	PCR primer for adk
c 100	18	1.3	18	21	AA293511	TRADD antisense ol	173	16.4	1.1	27	22	AAQ57461	3' RACE forward pr
c 101	18	1.3	18	21	AA293512	TRADD antisense ol	174	16.4	1.1	27	22	AAQ89679	Plasmodiumchitinas
c 102	18	1.3	18	21	AA293513	TRADD antisense ol	175	16.4	1.1	27	22	AAQ16506	PCR primer #1 for
c 103	18	1.3	18	21	AA293514	TRADD antisense ol	176	16.4	1.1	27	24	AAQ18124	Streptococcus dysg
c 104	18	1.3	18	21	AA293515	TRADD antisense ol	177	16.4	1.1	28	15	AAQ62767	PCR primer J04 for
c 105	18	1.3	18	21	AA293516	TRADD antisense ol	178	16.4	1.1	28	15	AAQ62742	PCR primer J04 for
c 106	18	1.3	18	21	AA293517	TRADD antisense ol	179	16.4	1.1	28	20	AAQ55151	C/EBP-beta antisen
c 107	18	1.3	18	21	AA293518	TRADD antisense ol	180	16.4	1.1	28	21	AAQ20720	Human C/EBP polynu
c 108	18	1.3	18	21	AA293519	TRADD antisense ol	181	16.4	1.1	28	21	AAQ34598	Human adenosine re
c 109	18	1.3	18	21	AA293520	TRADD antisense ol	182	16.4	1.1	28	22	AAQ91053	Human inflammatory
c 110	18	1.3	18	21	AA293521	TRADD antisense ol	183	16.4	1.1	29	20	AAQ87779	Human mucin MUC 5A
c 111	18	1.3	18	21	AA293522	TRADD antisense ol	184	16.4	1.1	29	21	AAQ04411	Polymorphic fragme
c 112	18	1.3	18	21	AA293523	TRADD antisense ol	185	16.4	1.1	29	22	AAQ48214	Chronic hepatitis
c 113	18	1.3	18	21	AA293524	TRADD antisense ol	186	16.4	1.1	30	12	AAQ13817	Probe for non-rece
c 114	18	1.3	18	21	AA293525	TRADD antisense ol	187	16.4	1.1	30	19	AAQ13914	Oligonucleotide of
c 115	18	1.3	18	21	AA293526	TRADD antisense ol	188	16.4	1.1	30	20	AAQ208737	HCMV/HIV-1 hybrid
c 116	18	1.3	18	21	AA293527	TRADD antisense ol	189	16.4	1.1	30	21	AAQ93999	Antiviral vector p
c 117	18	1.3	18	21	AA293528	TRADD antisense ol	190	16.4	1.1	30	21	AAQ65174	Boxless primer use
c 118	18	1.3	18	21	AA293529	TRADD antisense ol	191	16.4	1.1	30	22	AAQ22549	Kis gene fragment
c 119	18	1.3	18	21	AA293530	TRADD antisense ol	192	16.4	1.1	30	22	AAQ86893	PCR primer for a h
c 120	18	1.3	18	21	AA293531	TRADD antisense ol	193	16.2	1.1	21	22	AAQ78233	PCR primer for cdn
c 121	18	1.3	18	21	AA293532	TRADD antisense ol	194	16.2	1.1	22	19	AAQ48447	Transforming growt
c 122	18	1.3	18	21	AA293533	TRADD antisense ol	195	16.2	1.1	22	21	AAQ10003	Primer CDPuro-1 fo
c 123	18	1.3	18	21	AA293534	TRADD antisense ol	196	16.2	1.1	22	22	AAQ17161	PCR primer CDPuro-
c 124	18	1.3	18	21	AA293535	TRADD antisense ol	197	16.2	1.1	23	14	AAQ35500	HIV-2 detection se
c 125	18	1.3	18	21	AA293536	TRADD antisense ol	198	16.2	1.1	23	16	AAQ75358	DNA probe to OKT3
c 126	18	1.3	18	21	AA293537	TRADD antisense ol	199	16.2	1.1	23	19	AAQ09018	Probe for OKT3 var
c 127	18	1.3	18	21	AA293538	TRADD antisense ol	200	16.2	1.1	24	19	AAQ22263	Primer used in pre
c 128	18	1.3	18	21	AA293539	TRADD antisense ol	201	16.2	1.1	24	19	AAQ22259	Primer used in pre
c 129	18	1.3	18	21	AA293540	TRADD antisense ol	202	16.2	1.1	26	21	AAQ15025	PCR primer for the
c 130	18	1.3	18	21	AA293541	TRADD antisense ol	203	16.2	1.1	29	21	AAQ60929	Squamous cell carc
c 131	18	1.3	18	21	AA293542	TRADD antisense ol	204	16.2	1.1	30	14	AAQ51393	Chlamydia capture
c 132	18	1.3	18	21	AA293543	TRADD antisense ol	205	16.2	1.1	30	19	AAQ25986	Human CD33-like pr
c 133	18	1.3	18	21	AA293544	TRADD antisense ol	206	16.2	1.1	30	20	AAQ78867	Human tissue facto
c 134	18	1.3	18	21	AA293545	TRADD antisense ol	207	16.2	1.1	30	20	AAQ77511	Human beta-APP sec
c 135	18	1.3	18	21	AA293546	TRADD antisense ol	208	16.2	1.1	30	21	AAQ38865	Human G-protein co
c 136	18	1.3	18	21	AA293547	TRADD antisense ol	209	16.2	1.1	30	22	AAQ82005	Human wound healin
c 137	18	1.3	18	21	AA293548	TRADD antisense ol	210	16	1.1	17	19	AAQ62480	Antisense oligonuc
c 138	18	1.3	18	21	AA293549	TRADD antisense ol	211	16	1.1	17	19	AAQ62481	Antisense oligonuc
c 139	18	1.3	18	21	AA293550	TRADD antisense ol	212	16	1.1	18	18	AAQ63290	Delta-9 desaturase
c 140	18	1.3	18	21	AA293551	TRADD antisense ol	213	16	1.1	24	14	AAQ45926	GCN4-1, GCN4 bindi
c 141	18	1.3	18	21	AA293552	TRADD antisense ol	214	16	1.1	24	14	AAQ45927	GCN4-2, GCN4 bindi
c 142	18	1.3	18	21	AA293553	TRADD antisense ol	215	16	1.1	24	14	AAQ45928	GCN4-3, GCN4 bindi
c 143	18	1.3	18	21	AA293554	TRADD antisense ol	216	16	1.1	24	14	AAQ45929	GCN4-4, GCN4 bindi
c 144	18	1.3	18	21	AA293555	TRADD antisense ol	217	16	1.1	24	18	AAQ99287	upfAR element dime
c 145	18	1.3	18	21	AA293556	TRADD antisense ol	218	16	1.1	24	19	AAQ31744	Nucleotide sequenc
c 146	18	1.3	18	21	AA293557	TRADD antisense ol	219	16	1.1	24	19	AAQ04301	Primer Sonde S112A
c 147	18	1.3	18	21	AA293558	TRADD antisense ol	220	16	1.1	24	20	AAQ04092	upfAR element olig
c 148	18	1.3	18	21	AA293559	TRADD antisense ol	221	16	1.1	25	21	AAQ99647	Nucleotide sequenc
c 149	18	1.3	18	21	AA293560	TRADD antisense ol	222	16	1.1	25	15	AAQ70390	Horse genomic DNA
c 150	18	1.3	18	21	AA293561	TRADD antisense ol	223	16	1.1	25	16	AAQ95974	Horse genomic prim
c 151	18	1.3	18	21	AA293562	TRADD antisense ol	224	16	1.1	26	18	AAQ89104	E. coli serotype 0
c 152	18	1.3	18	21	AA293563	TRADD antisense ol	225	16	1.1	26	22	AAQ83557	E. coli 0157:H7 ge
c 153	18	1.3	18	21	AA293564	TRADD antisense ol	226	16	1.1	26	22	AAQ12206	E. coli 0157:H7 pa
c 154	18	1.3	18	21	AA293565	TRADD antisense ol	227	16	1.1	26	24	AAQ24659	Human 5-lipoxygena
c 155	18	1.3	18	21	AA293566	TRADD antisense ol	228	16	1.1	27	18	AAQ72301	Mouse flk-1 VEGF r

c 229	16	1.1	27	18	AAW70893	Human KDR VEGF rec	c 302	15.8	1.1	30	14	AAQ52998	Herpes simplex vir
230	16	1.1	27	20	AAW78764	VZV VP26 PCR prime	303	15.8	1.1	30	19	AAV44926	promoter molecule
231	16	1.1	27	24	ABA03338	S chrysomallus act	304	15.8	1.1	30	19	AAV43837	probe cdc25C-2 use
232	16	1.1	28	22	AAW84320	Mutagenic PCR prim	305	15.8	1.1	30	20	AAZ06311	Oligonucleotide pr
233	16	1.1	29	19	AAW34025	P. carinii serine	306	15.8	1.1	30	20	AAW83631	Electrophoretic mo
234	16	1.1	29	20	AAZ31039	Primer #2 for Surv	307	15.8	1.1	30	21	AAZ46964	Human B5 receptor
235	16	1.1	29	20	AAW05153	3' junction sequen	308	15.8	1.1	30	22	AAW11851	Human surfactant p
236	16	1.1	29	21	AAW03825	Polymorphic fragme	309	15.8	1.1	30	22	AAW00218	PCR primer, FKRL1
237	16	1.1	29	21	AAW04065	Polymorphic fragme	310	15.8	1.1	22	21	AAW62141	A. auriculariformis
238	16	1.1	29	22	AAW84319	Mutagenic PCR prim	311	15.6	1.1	22	21	AAW36879	Human dysferlin ex
239	16	1.1	30	19	AAW71114	PCR primer used to	312	15.6	1.1	22	21	AAW1424	Human dysferlin PC
240	16	1.1	30	20	AAZ30935	Thermus thermophil	313	15.6	1.1	22	22	AAH23155	Nitric oxide synth
241	16	1.1	30	20	AAZ08221	HTF sequence-spec	314	15.6	1.1	22	22	AAH23165	Nitric oxide synth
242	16	1.1	30	20	AAW81627	PCR primer used to	315	15.6	1.1	22	22	AAH23173	Nitric oxide synth
243	15.8	1.1	19	20	AAW55052	C/EBP-beta antisen	316	15.6	1.1	22	22	AAW92645	Human Nck-2 real-t
244	15.8	1.1	19	21	AAW20621	Human C/EBP polyu	317	15.6	1.1	23	20	AAZ31504	PCR primer for int
245	15.8	1.1	19	21	AAW34499	Human adenosine re	318	15.6	1.1	24	21	AAW58023	Human PRO1780 reve
246	15.8	1.1	20	17	AAW86501	S-adenosylmethioni	319	15.6	1.1	24	21	AAW28486	Sense primer for r
247	15.8	1.1	20	18	AAW91100	Bovine lysosomal a	320	15.6	1.1	24	21	AAW37269	Human PRO1780 reve
248	15.8	1.1	20	19	AAW70031	Rat c-jun protein	321	15.6	1.1	24	22	AAW166926	SSP2 cDNA amplifi
249	15.8	1.1	20	20	AAW55051	C/EBP-beta antisen	322	15.6	1.1	24	22	AAW54403	DNA encoding prote
250	15.8	1.1	20	21	AAW20620	Human C/EBP polyu	323	15.6	1.1	25	21	AAW98541	Cyclin D1 gene spe
251	15.8	1.1	20	21	AAW34498	Human adenosine re	324	15.6	1.1	25	22	AAW44031	Neisseria meningit
252	15.8	1.1	21	20	AAW55050	C/EBP-beta antisen	325	15.6	1.1	25	22	AAW44037	Neisseria meningit
253	15.8	1.1	21	21	AAW20619	Human C/EBP polyu	326	15.6	1.1	25	22	AAW44052	Neisseria meningit
254	15.8	1.1	21	21	AAW34497	Human adenosine re	327	15.6	1.1	25	22	AAW11758	Human AAG6 DNA int
255	15.8	1.1	21	22	AAW95747	Human gene single	328	15.6	1.1	26	19	AAW49956	PCR primer for hum
256	15.8	1.1	21	22	AAW55049	C/EBP-beta antisen	329	15.6	1.1	26	20	AAW08595	Primer for amplifi
257	15.8	1.1	22	21	AAW20618	Human C/EBP polyu	330	15.6	1.1	26	21	AAW82696	Human IgA nephropa
258	15.8	1.1	22	21	AAW34496	Human adenosine re	331	15.6	1.1	26	22	AAW92840	Human ABC1 transcr
259	15.8	1.1	23	20	AAW55048	C/EBP-beta antisen	332	15.6	1.1	26	22	AAW37158	Anti-sense primer
260	15.8	1.1	23	21	AAW20617	Human C/EBP polyu	333	15.6	1.1	27	14	AAQ371838	Nuclease resistant
261	15.8	1.1	23	21	AAW34495	Human adenosine re	334	15.6	1.1	27	20	AAW65354	Interleukin-1 alph
262	15.8	1.1	24	20	AAW55047	C/EBP-beta antisen	335	15.6	1.1	27	20	AAW08009	primer IL-1alpha f
263	15.8	1.1	24	21	AAW20616	Human C/EBP polyu	336	15.6	1.1	27	21	AAW09063	3' primer for huma
264	15.8	1.1	24	21	AAW34494	Human adenosine re	337	15.6	1.1	27	21	AAZ49175	PCR primer for SSX
265	15.8	1.1	25	17	AAW04447	M. tuberculosis st	338	15.6	1.1	27	21	AAZ29630	Forward PCR primer
266	15.8	1.1	25	20	AAW55046	C/EBP-beta antisen	339	15.6	1.1	27	22	AAW62362	PCR primer used to
267	15.8	1.1	25	21	AAW20615	Human C/EBP polyu	340	15.6	1.1	28	22	AAW07406	BLTR4 primer, to a
268	15.8	1.1	25	21	AAW34493	Human adenosine re	341	15.6	1.1	29	20	AAW83175	Primer used in con
269	15.8	1.1	26	20	AAW55045	C/EBP-beta antisen	342	15.6	1.1	30	17	AAW56951	HIV-2 DNA fragmen
270	15.8	1.1	26	21	AAW20614	Human C/EBP polyu	343	15.6	1.1	30	17	AAW45758	Human granulocyte
271	15.8	1.1	26	21	AAW34492	Human adenosine re	344	15.6	1.1	30	17	AAW14573	CD11b gene promote
272	15.8	1.1	27	19	AAW13385	PCR primer used to	345	15.6	1.1	30	17	AAW09304	Murine anti-Protei
273	15.8	1.1	27	20	AAW89241	Epo-R DNA amplifi	346	15.6	1.1	30	17	AAW37011	Human interleukin-
274	15.8	1.1	27	20	AAW55044	C/EBP-beta antisen	347	15.6	1.1	30	20	AAW81943	PCR primer used to
275	15.8	1.1	27	21	AAW20613	Human C/EBP polyu	348	15.6	1.1	30	22	AAW17808	Zea mays embryo sa
276	15.8	1.1	27	21	AAW73145	Human PSA amplifi	349	15.6	1.1	30	22	AAW14226	Synthetic transcri
277	15.8	1.1	27	21	AAW34491	Human adenosine re	350	15.6	1.1	30	22	AAW27903	Human NOV21 cDNA P
278	15.8	1.1	27	22	AAW30473	Neisseria meningit	351	15.4	1.1	17	19	AAW49229	rb gene antisense
279	15.8	1.1	27	22	AAW30473	RT-PCR primer F7-R	352	15.4	1.1	18	18	AAW63292	Delta-9 desaturase
280	15.8	1.1	28	17	AAW15675	Reverse-Frame HCV	353	15.4	1.1	18	19	AAW16008	PCR primer D-R use
281	15.8	1.1	28	17	AAW08872	Primer GE-9R for H	354	15.4	1.1	18	20	AAW33863	Human G-alpha-13 a
282	15.8	1.1	28	19	AAW66131	PCR primer GE-9R u	355	15.4	1.1	18	21	AAW05252	PCR primer D-R use
283	15.8	1.1	28	19	AAW65646	HIV-1 promoter fra	356	15.4	1.1	18	21	AAZ43267	Murine Sox3 gene p
284	15.8	1.1	28	19	AAW56090	HGV primer GE-9R D	357	15.4	1.1	19	21	AAW85205	Cyclin H ribozyme
285	15.8	1.1	28	19	AAW43106	Primer Bt20 for li	358	15.4	1.1	19	22	AAW60367	Cyclin H ribozyme
286	15.8	1.1	28	20	AAW16410	PCR primer used to	359	15.4	1.1	20	17	AAW32530	Primer for exon 10
287	15.8	1.1	28	20	AAW02365	US5856134 Seq ID 4	360	15.4	1.1	20	21	AAW35543	Mytatacae microsat
288	15.8	1.1	28	20	AAW82153	Hepatitis G virus	361	15.4	1.1	21	21	AAW63851	PCR primer used to
289	15.8	1.1	28	24	AAW26314	Human ORG3 cDNA t1	362	15.4	1.1	22	14	AAQ37155	Probe to detect ac
290	15.8	1.1	29	14	AAQ37735	PCR primer P1 to a	363	15.4	1.1	22	20	AAW08006	Probe actin for In
291	15.8	1.1	29	17	AAW15736	NC92, 5' primer fo	364	15.4	1.1	24	17	AAW34157	Monoclonal antibod
292	15.8	1.1	29	19	AAW55497	Flt-3 receptor ago	365	15.4	1.1	24	19	AAW09324	Human biallelic po
293	15.8	1.1	29	19	AAW44559	Primer 339FOR2 for	366	15.4	1.1	24	19	AAW27167	Haemopoietin recep
294	15.8	1.1	29	21	AAW68508	Periplakin gene SN	367	15.4	1.1	24	20	AAW00050	FGFR PCR antisense
295	15.8	1.1	29	21	AAW03920	Polymorphic fragme	368	15.4	1.1	24	21	AAW11137	Beta-actin gene sp
296	15.8	1.1	29	21	AAW04010	Polymorphic fragme	369	15.4	1.1	24	22	AAH24350	Actin PCR anti-sen
297	15.8	1.1	29	21	AAW04045	Polymorphic fragme	370	15.4	1.1	25	14	AAQ40983	Rabbit mono ADP-ri
298	15.8	1.1	29	21	AAW04644	Polymorphic fragme	371	15.4	1.1	25	15	AAQ72719	dgd operator 01.
299	15.8	1.1	29	21	AAZ39065	Human secreted pro	372	15.4	1.1	25	19	AAW19511	Retroviral DNA bas
300	15.8	1.1	29	22	AAW73610	Human WRIP cDNA RA	373	15.4	1.1	25	20	AAW63067	Human ADP-ribosylt
301	15.8	1.1	30	13	AAQ30908	Oligonucleotide 37	374	15.4	1.1	25	21	AAW55331	Neisseria species

c 375	15.4	1.1	25	21	AA255447	Neisseria species	c 448	15.2	1.1	24	21	AA278671	Human PRO705 rever
c 376	15.4	1.1	25	21	AA255565	PCR primer used to	c 449	15.2	1.1	24	22	AAH44303	Human fibrinogen 9
c 377	15.4	1.1	26	9	AA281251	Probe 0-CRC-26 to	c 450	15.2	1.1	24	24	AB185878	Capture oligonucle
c 378	15.4	1.1	26	14	AA252962	Herpes simplex vir	c 451	15.2	1.1	24	24	AB185879	Capture oligonucle
c 379	15.4	1.1	26	18	AA292472	PCR primer SEQ ID	c 452	15.2	1.1	24	24	AA166346	Human alpha-galact
c 380	15.4	1.1	26	22	AAH49124	Human ACADM gene a	c 453	15.2	1.1	25	11	AAQ05027	Fragment HVR3 of s
c 381	15.4	1.1	27	14	AAQ43483	Sequence of anti-s	c 454	15.2	1.1	25	18	AA274673	Pig myogenin gene
c 382	15.4	1.1	27	15	AAQ71478	BNDF and NT3 synth	c 455	15.2	1.1	25	19	AAV36476	PCR primer MANTIE2
c 383	15.4	1.1	27	17	AA235806	Saci methylase gen	c 456	15.2	1.1	25	20	AA219946	Human apoptosis in
c 384	15.4	1.1	27	18	AA272171	Mouse flk-1 VEGF r	c 457	15.2	1.1	25	20	AA27245	Human apoptosis in
c 385	15.4	1.1	27	19	AAV94399	Canine IL-2 recept	c 458	15.2	1.1	25	21	AA275533	PCR primer for apo
c 386	15.4	1.1	27	22	AA221362	Prostate specific	c 459	15.2	1.1	25	21	AA297405	Pea pra2 light-rep
c 387	15.4	1.1	27	22	AAH74224	Oligonucleotide de	c 460	15.2	1.1	25	21	AA298422	Pseudomonas sp. WF
c 388	15.4	1.1	27	22	AAH27191	PCR primer rpoB-1F	c 461	15.2	1.1	25	22	AA212794	Human vanilloid re
c 389	15.4	1.1	27	22	AA289021	Alzheimer's diseas	c 462	15.2	1.1	25	22	AAH19739	Nucleotide-5'-phos
c 390	15.4	1.1	28	20	AAV80127	Yeast MEV1 promote	c 463	15.2	1.1	25	24	AA222854	Myogenin cell mark
c 391	15.4	1.1	28	21	AA261516	Primer used to amp	c 464	15.2	1.1	26	21	AA262220	PCR primer for a h
c 392	15.4	1.1	28	21	AA262475	Wheat thioredoxin	c 465	15.2	1.1	27	22	AA285912	Multiple Cloning s
c 393	15.4	1.1	29	18	AA273532	Primer RH124 for b	c 466	15.2	1.1	27	24	ABK16837	Human protein ref
c 394	15.4	1.1	29	18	AA273551	Primer RH124 for b	c 467	15.2	1.1	27	24	ABK16838	Human protein ref
c 395	15.4	1.1	29	20	AA260127	PCR primer used to	c 468	15.2	1.1	28	13	AAQ24832	PCR primer OHRH-19
c 396	15.4	1.1	29	22	AAH4970	HIV Gp41 region sp	c 469	15.2	1.1	28	16	AAQ98483	Cyclin D1 promoter
c 397	15.4	1.1	29	22	AA216759	Mazie acetolactate	c 470	15.2	1.1	28	18	AA267117	Helminth MAF antis
c 398	15.4	1.1	30	13	AA225088	PCR primer for the	c 471	15.2	1.1	28	19	AAV44665	Triplex-forming ol
c 399	15.4	1.1	30	14	AA253637	Nucleic acid ligan	c 472	15.2	1.1	28	20	AA235921	PCR primer for gra
c 400	15.4	1.1	30	16	AA233318	KHCV 932 probe P93	c 473	15.2	1.1	28	21	AA263976	PCR primer used to
c 401	15.4	1.1	30	16	AA270097	Human papilloma vi	c 474	15.2	1.1	28	21	AA205914	Group B Streptococ
c 402	15.4	1.1	30	16	AA298752	Primer for amplif	c 475	15.2	1.1	28	21	AA249806	Arabidopsis hydrol
c 403	15.4	1.1	30	17	AA239564	Reverse primer for	c 476	15.2	1.1	28	21	AA249635	R154C primer for s
c 404	15.4	1.1	30	17	AA270767	NGF SELEX clone ng	c 477	15.2	1.1	29	17	AA248095	Human monocyte che
c 405	15.4	1.1	30	18	AA2900765	SELEX ligand ngf.d	c 478	15.2	1.1	29	18	AA259859	Antisense primer #
c 406	15.4	1.1	30	18	AA290350	DNA encoding pepti	c 479	15.2	1.1	29	19	AAV31143	p85 PCR primer SEQ
c 407	15.4	1.1	30	18	AA273959	HIV-1 gp120 synthe	c 480	15.2	1.1	29	20	AA210217	PCR primer used to
c 408	15.4	1.1	30	19	AA272940	Soybean seed stea	c 481	15.2	1.1	29	20	AA276803	PCR primer for S.
c 409	15.4	1.1	30	19	AA273304	Synthetic HIV-1 gp	c 482	15.2	1.1	29	20	AAV91645	Human C-raif hammer
c 410	15.4	1.1	30	19	AAV14546	SELEX identified l	c 483	15.2	1.1	29	21	AA240452	Polymorphic fragme
c 411	15.4	1.1	30	20	AA279625	RNA ligand sequenc	c 484	15.2	1.1	29	21	AA240476	Polymorphic fragme
c 412	15.4	1.1	30	21	AA288459	Plasmid pcSA104 T-	c 485	15.2	1.1	29	21	AA2404323	Polymorphic fragme
c 413	15.4	1.1	30	21	AA292725	Nerve growth facto	c 486	15.2	1.1	29	21	AA2404567	Polymorphic fragme
c 414	15.4	1.1	30	22	AA272088	T-DNA right border	c 487	15.2	1.1	29	21	AA2404645	Polymorphic fragme
c 415	15.4	1.1	30	22	AA214554	HPV oligonucleotid	c 488	15.2	1.1	29	21	AA2404696	Polymorphic fragme
c 416	15.4	1.1	30	22	AA279242	Cell division cont	c 489	15.2	1.1	29	21	AA246080	PCR primer used to
c 417	15.4	1.1	30	22	AA246315	30mer single stran	c 490	15.2	1.1	29	21	AA249967	Primer-4 for short
c 418	15.4	1.1	30	22	AA246316	30mer single stran	c 491	15.2	1.1	29	22	AAH91297	Human inflammatory
c 419	15.4	1.1	30	22	AA246318	30mer single stran	c 492	15.2	1.1	30	16	AAQ86151	Adrenal adrenodoxi
c 420	15.4	1.1	30	22	AA246319	30mer single stran	c 493	15.2	1.1	30	17	AA245752	Human stem cell fa
c 421	15.4	1.1	30	22	AA244559	Mouse DSS-induced	c 494	15.2	1.1	30	18	AA251156	Homeoprotein regul
c 422	15.2	1.1	30	22	AA268829	Antisense oligonuc	c 495	15.2	1.1	30	19	AAV27006	Synthetic pMAW104
c 423	15.2	1.1	30	18	AAV01150	Homeobox 7 PCR pri	c 496	15.2	1.1	30	19	AAV26178	PRV gI gene PCR pr
c 424	15.2	1.1	30	19	AAV53579	Nucleotide sequenc	c 497	15.2	1.1	30	20	AA223307	L. brevis ADH muta
c 425	15.2	1.1	30	19	AAV30754	Human endothelial	c 498	15.2	1.1	30	20	AA223098	Primer #21. Synth
c 426	15.2	1.1	30	19	AAV30755	Human endothelial	c 499	15.2	1.1	30	20	AA227665	[AP]n internal rep
c 427	15.2	1.1	30	20	AA293598	PCR primer used to	c 500	15.2	1.1	30	21	AA296776	PCR primer for his
c 428	15.2	1.1	30	22	AA245963	Human PARP-3 antis	c 501	15.2	1.1	30	21	AA296788	PCR primer for his
c 429	15.2	1.1	30	22	AA220451	L. monocytogenes l	c 502	15.2	1.1	30	21	AA299184	OmpT protease rela
c 430	15.2	1.1	30	24	ABA02250	Human/mouse C/EBP	c 503	15.2	1.1	30	21	AA260827	Beta-cellulin mute
c 431	15.2	1.1	31	10	AA248747	Primer used in hum	c 504	15.2	1.1	30	21	AA251550	Maize end gene spe
c 432	15.2	1.1	31	11	AAQ03990	Primer used in det	c 505	15.2	1.1	30	21	AA251550	Linker g3-2 DNA, S
c 433	15.2	1.1	31	16	AAQ90037	Human SMP30 gene p	c 506	15.2	1.1	30	21	AA250729	NF-kappaB oligonuc
c 434	15.2	1.1	31	18	AA262687	Primer for human s	c 507	15.2	1.1	30	21	AA290467	Invader oligonucle
c 435	15.2	1.1	31	19	AAV58376	Primer for mouse t	c 508	15.2	1.1	30	22	AA220969	Human cMET (HGF-re
c 436	15.2	1.1	31	20	AA255135	C/EBP-beta antisen	c 509	15.2	1.1	30	23	AA295161	Otoferlin exon/int
c 437	15.2	1.1	31	20	AAV33913	Sense PCR primer u	c 510	15.2	1.1	30	23	AA295192	Otoferlin exon/int
c 438	15.2	1.1	31	21	AA220704	Human C/EBP polynu	c 511	15.2	1.1	30	24	ABA03329	S thryosomallus act
c 439	15.2	1.1	31	21	AA296618	(C)-primer for sec	c 512	15.2	1.1	30	24	AA26420	Trinucleotide simp
c 440	15.2	1.1	31	21	AA258098	Human PRO2262 hybr	c 513	15.2	1.1	31	15	AA26420	IGFBP2 oligonucleo
c 441	15.2	1.1	31	21	AA234582	Human adenosine re	c 514	15.2	1.1	31	15	AA26420	IGFBP2 oligonucleo
c 442	15.2	1.1	31	22	AA296976	Human gene single	c 515	15.2	1.1	31	15	AA26420	Human C-raif target
c 443	15.2	1.1	32	22	AA258434	Murine mOCILR2 cl	c 516	15.2	1.1	32	15	AA26420	Human Survivin ant
c 444	15.2	1.1	33	17	AA227735	Primer for amplif	c 517	15.2	1.1	33	15	AA26420	Alpha interferon s
c 445	15.2	1.1	34	17	AA203689	Triplex-affinity D	c 518	15.2	1.1	34	15	AA26420	Alpha interferon s
c 446	15.2	1.1	34	20	AA233985	Human PRO705 PCR r	c 519	15.2	1.1	34	15	AA26420	Antisense inhibito
c 447	15.2	1.1	34	20	AA200301	LacZ specific PCR	c 520	15.2	1.1	34	15	AA26420	S. noursei PKS-enc

c 521	15	1.0	23	13	AAQ28242	Primer MCHC2.	Syn	594	15	1.0	30	18	AAAT46212	Forward primer for
c 522	15	1.0	23	17	AAT29419	Immunoglobulin g1		c 595	15	1.0	30	19	AAV21546	Oligonucleotide pr
c 523	15	1.0	23	20	AAQ05619	Plasmid pPori1 cons		c 596	15	1.0	30	19	AAV09813	PCR primer for the
c 524	15	1.0	23	21	AAAL15108	PCR primer used to		c 597	15	1.0	30	19	AAV03640	Heavy chain primer
c 525	15	1.0	23	21	AAZ40024	PCR primer for F1e		c 598	15	1.0	30	20	AAZ07618	HCV NS1/E region a
c 526	15	1.0	23	22	AAF86028	Oligonucleotide #4		c 599	15	1.0	30	20	AAZ10218	PCR primer used to
c 527	15	1.0	24	15	AAQ57329	Enzymatic RNA mole		c 600	15	1.0	30	20	AAZ06330	CD44 V3c-RP-BamH1
c 528	15	1.0	24	20	AAI19912	Caspase activated		c 601	15	1.0	30	20	AAZ55066	C/EBP-beta antisen
c 529	15	1.0	24	22	AAAL12811	Human VEGF-A rever		c 602	15	1.0	30	20	AAZ26763	PCR primer J1(E2)3
c 530	15	1.0	24	22	AAH75537	Human zinc-finger		c 603	15	1.0	30	20	AAZ16901	Primer #12 for amp
c 531	15	1.0	24	22	AAH75406	Codon-optimised HP		c 604	15	1.0	30	20	AAZ00428	Hepatitis C virus
c 532	15	1.0	24	22	AAZ18863	Growth hormone 1 g		c 605	15	1.0	30	20	AAV79562	Anti-Prp antibody
c 533	15	1.0	24	24	ABI85570	Capture oligonucle		c 606	15	1.0	30	20	AAV64106	HSV-2 gH gene PCR
c 534	15	1.0	24	24	ABI85571	Capture oligonucle		c 607	15	1.0	30	21	AAF20635	Human C/EBP polyu
c 535	15	1.0	25	14	AAQ40394	Sequence of PCR pr		c 608	15	1.0	30	21	AAZ37970	PCR primer E used
c 536	15	1.0	25	14	AAQ40395	Sequence of PCR pr		c 609	15	1.0	30	21	AAZ34513	Human adenosine re
c 537	15	1.0	25	16	AAQ93023	Pre-invasive human		c 610	15	1.0	30	21	AAZ50970	A. halophila PCR p
c 538	15	1.0	25	17	AAT28881	Primer #2 for Kell		c 611	15	1.0	30	21	AAZ50970	Heavy chain fd M13
c 539	15	1.0	25	19	AAV27959	Mouse beta-interfe		c 612	15	1.0	30	21	AAZ57871	H2SB10 hybridoma h
c 540	15	1.0	25	21	AAC95576	HLA DOB gene PCR p		c 613	15	1.0	30	22	AAI67113	Anti-Prp antibody
c 541	15	1.0	25	21	AAC95578	HLA DOB gene PCR p		c 614	15	1.0	30	22	AAD20941	Chlamydia pneumoni
c 542	15	1.0	25	21	AAC95607	HLA DOB gene PCR p		c 615	15	1.0	30	22	AAZ11344	Mouse antibody C h
c 543	15	1.0	25	22	AAH21326	Human MDR-1 allele		c 616	15	1.0	30	22	AAF60870	Human TAA R11 asso
c 544	15	1.0	26	21	AAZ59792	Human Smad3 quanti		c 617	15	1.0	30	22	ABI97673	Endogenous human G
c 545	15	1.0	26	22	AAH73683	SM33 glucose isome		c 618	15	1.0	30	23	ABA03809	Lambda ZAP II vect
c 546	15	1.0	27	15	AAQ67191	Gammal gene CHI re		c 619	14.8	1.0	18	15	AAQ71147	Merlin exon 14 pri
c 547	15	1.0	27	15	AAQ73072	C-reactive protein		c 620	14.8	1.0	18	20	AAZ55053	C/EBP-beta antisen
c 548	15	1.0	27	17	AAT16184	Murine Gamma-1 gen		c 621	14.8	1.0	18	21	AAF20622	Human C/EBP polyu
c 549	15	1.0	27	17	AAT16188	Anti-RSV F protein		c 622	14.8	1.0	18	21	AAZ34500	Human adenosine re
c 550	15	1.0	27	18	AAT65011	Anti-erbB2 antibod		c 623	14.8	1.0	18	21	AAZ65510	Immunosuppressant
c 551	15	1.0	27	19	AAZ06829	Potato citrate syn		c 624	14.8	1.0	19	16	AAQ95604	Primer A (Group 5,
c 552	15	1.0	27	20	AAZ08907	Human PECAM-1 anti		c 625	14.8	1.0	19	18	AAT76248	Human IL6 receptor
c 553	15	1.0	27	21	AAC67789	PCR primer MOV-1.		c 626	14.8	1.0	19	20	AAZ54038	Human IL-6 recepto
c 554	15	1.0	27	21	AAZ86939	PCR primer for hum		c 627	14.8	1.0	19	21	AAAF19604	Human IL6 receptor
c 555	15	1.0	27	22	AAK12543	Thuja plicata tp4		c 628	14.8	1.0	19	21	AAZ33482	Low adenosine anti
c 556	15	1.0	27	24	ABK17316	Monoclonal antibod		c 629	14.8	1.0	19	22	AAI65647	Primer for studyin
c 557	15	1.0	27	24	ABK17328	Mutant MAB phospho		c 630	14.8	1.0	19	22	AAI65648	Primer for studyin
c 558	15	1.0	28	14	AAQ52949	Herpes simplex vir		c 631	14.8	1.0	20	15	AAQ62025	Mutant Ki-ras 5'-U
c 559	15	1.0	28	18	AAT90109	Ha-ras oncogene DN		c 632	14.8	1.0	20	16	AAQ79844	K-ras modulating s
c 560	15	1.0	28	19	AAV10016	Ligation assay oli		c 633	14.8	1.0	20	17	AAT11653	Herpes simplex vir
c 561	15	1.0	28	20	AAZ55140	C/EBP-beta antisen		c 634	14.8	1.0	20	20	AAZ01523	PCR primer used to
c 562	15	1.0	28	21	AAF20709	Human C/EBP polyu		c 635	14.8	1.0	20	20	AAZ37774	Staphylococcus sp.
c 563	15	1.0	28	21	AAZ34587	Human adenosine re		c 636	14.8	1.0	20	20	AAZ56984	Ras gene modulat
c 564	15	1.0	28	21	AAZ94485	Cartilage-associat		c 637	14.8	1.0	20	20	AAZ21620	Human Ki-ras speci
c 565	15	1.0	28	22	AAH42990	PCR primer for hum		c 638	14.8	1.0	20	20	AAV84024	Antisense oligonuc
c 566	15	1.0	28	22	AAH42993	PCR primer for hum		c 639	14.8	1.0	20	21	AAZ95858	Human Ki-ras antis
c 567	15	1.0	28	22	AAH22079	2H7 mouse monoclon		c 640	14.8	1.0	20	21	AAZ89066	Human nibrin PCR p
c 568	15	1.0	29	17	AAT42344	Human 26S proteaso		c 641	14.8	1.0	20	21	AAZ65515	Immunosuppressant
c 569	15	1.0	29	19	AAV58764	Human secreted pro		c 642	14.8	1.0	20	21	AAZ44201	Murine cerebral ne
c 570	15	1.0	29	19	AAV10020	Ligation assay oli		c 643	14.8	1.0	20	21	AAZ34998	Nijmegen breakage
c 571	15	1.0	29	19	AAV09293	Clone AS167.3 olig		c 644	14.8	1.0	20	22	AAZ10521	Human caspase 3 an
c 572	15	1.0	29	20	AAZ19935	Human apoptosis in		c 645	14.8	1.0	20	22	AAD09639	Human PKA C-alpha
c 573	15	1.0	29	20	AAZ89625	Human secreted pro		c 646	14.8	1.0	20	22	AAD09640	Human PKA C-alpha
c 574	15	1.0	29	20	AAZ87233	Human apoptosis in		c 647	14.8	1.0	20	22	AAF82449	Human Map4 promote
c 575	15	1.0	29	21	AAV5519	PCR primer for apo		c 648	14.8	1.0	20	24	AAD26612	Reverse RT-PCR pri
c 576	15	1.0	29	21	AAZ49043	Oligonucleotide Co		c 649	14.8	1.0	21	14	AAQ41618	TGF-beta2 sense st
c 577	15	1.0	29	22	AAI66612	Human leukotriene		c 650	14.8	1.0	21	14	AAQ161619	TGF-beta2 antisen
c 578	15	1.0	29	22	AAI66614	Rat leukotriene B4		c 651	14.8	1.0	21	22	AAI65831	PCR primer for cDN
c 579	15	1.0	29	22	AAZ59340	Human secreted pro		c 652	14.8	1.0	21	22	AAZ95700	Human gene single
c 580	15	1.0	29	24	ABA91009	Biotinylated oligo		c 653	14.8	1.0	21	22	AAZ97319	Human gene single
c 581	15	1.0	30	14	AAQ53397	F9 cell RNA finger		c 654	14.8	1.0	22	16	AAQ91741	Oligonucleotide 74
c 582	15	1.0	30	14	AAQ48843	M13TMD3 mutated fr		c 655	14.8	1.0	22	18	AAZ79261	Rat beta 2 integri
c 583	15	1.0	30	14	AAQ48848	M13TMD3 mutated fr		c 656	14.8	1.0	22	19	AAV63811	Rat alpha-d oligon
c 584	15	1.0	30	15	AAQ62642	Porphyrin antibody		c 657	14.8	1.0	22	19	AAV35278	Rat beta-integrin
c 585	15	1.0	30	15	AAQ73656	PCR primer for HSV		c 658	14.8	1.0	22	19	AAV31580	Rat alpha d cDNA c
c 586	15	1.0	30	16	AAQ73656	Primer AB-41 for t		c 659	14.8	1.0	22	20	AAV08472	Primer for rat alp
c 587	15	1.0	30	16	AAT10212	Hepatitis C virus		c 660	14.8	1.0	22	21	AAA60056	Rat alpha_d RACE p
c 588	15	1.0	30	16	AAQ79796	Deamidating antibo		c 661	14.8	1.0	22	22	AAZ14600	Human NGFR-GPCR qu
c 589	15	1.0	30	16	AAQ92601	Thermus thermophil		c 662	14.8	1.0	23	21	AAA99238	Human phospholipid
c 590	15	1.0	30	16	AAQ92584	Thermus thermophil		c 663	14.8	1.0	24	14	AAQ45926	GCNA-1, GCNA bindi
c 591	15	1.0	30	17	AAT47864	Heavy chain 3' pri		c 664	14.8	1.0	24	18	AAT88001	Primer used in iso
c 592	15	1.0	30	17	AAT72548	Primer MigG1 for a		c 665	14.8	1.0	24	18	AAV04751	X25 cDNA exon 4 am
c 593	15	1.0	30	18	AAT47737	Anti-CD19 antibody		c 666	14.8	1.0	24	18	AAAT97310	Human Fas signal s

c 567	14.8	1.0	24	20	AAx87675	Human TNF receptor	740	14.8	1.0	29	22	AA20515	Ob receptor (OBR)
c 568	14.8	1.0	24	21	AAc99926	Reverse primer 448	c 741	14.8	1.0	29	22	AAH73898	Human hepatome cel
c 569	14.8	1.0	24	21	AAc58456	Human PRO364 (UNQ3	742	14.8	1.0	29	22	AAE24018	Human OBR gene ant
c 570	14.8	1.0	24	21	AAH77608	Human PRO364 PCR p	c 743	14.8	1.0	29	24	AAI70870	Primer 52 binding
c 571	14.8	1.0	24	21	AAAD01248	Reverse PCR primer	c 744	14.8	1.0	30	7	AA60002	N-terminal sequenc
c 572	14.8	1.0	24	21	AA229810	Hepatitis B virus	745	14.8	1.0	30	11	AAQ05001	Sequence binding t
c 573	14.8	1.0	24	22	AAc85952	Primer 44825.r1 to	746	14.8	1.0	30	14	AAQ36295	GSTipar, targetted
c 574	14.8	1.0	24	22	AAH38569	SNP specific upper	747	14.8	1.0	30	14	AAQ36296	GSTianti, targette
c 575	14.8	1.0	24	22	AAc85439	Reverse primer (44	c 748	14.8	1.0	30	16	AAQ00982	Human papilloma vi
c 576	14.8	1.0	24	22	AAc30084	Human PRO364 DNA r	749	14.8	1.0	30	16	AAQ091126	Beta-cardiac myosi
c 577	14.8	1.0	24	22	AAc90590	Human PRO polyuocl	c 750	14.8	1.0	30	17	AA740084	RNA polymerase sig
c 578	14.8	1.0	24	22	AAc91518	Human PRO CDNA PCR	751	14.8	1.0	30	18	AA74296	Myelophthora cel
c 579	14.8	1.0	24	22	AAc97483	Human PRO364 PCR p	752	14.8	1.0	30	18	AA77064	Myelophthora cel
c 580	14.8	1.0	24	24	AA96345	Human transcriptio	753	14.8	1.0	30	19	AAV60901	pC-hpro-28 PCR pri
c 581	14.8	1.0	25	21	AA57666	PCR primer for det	c 754	14.8	1.0	30	20	AAZ25481	Globin mRNA primer
c 582	14.8	1.0	25	22	AA010760	Mycobacterium tube	755	14.8	1.0	30	20	AAZ08737	HCMV/HIV-1 hybrid
c 583	14.8	1.0	26	13	AAQ33014	Primer OL2. Synth	756	14.8	1.0	30	20	AAZ08737	HCMV/HIV-1 hybrid
c 584	14.8	1.0	26	14	AAQ33424	PCR primer OL2 spe	757	14.8	1.0	30	20	AAZ08737	HCMV/HIV-1 hybrid
c 585	14.8	1.0	26	20	AAZ31508	PCR primer for int	758	14.8	1.0	30	21	AAE20635	Human C/EBP polynu
c 586	14.8	1.0	26	20	AAZ36239	Primer used for se	c 759	14.8	1.0	30	21	AAc64546	Herpesvirus expres
c 587	14.8	1.0	26	21	AA53703	Oligonucleotide us	760	14.8	1.0	30	21	AAc64548	Herpesvirus expres
c 588	14.8	1.0	26	21	AA88031	Feline immunodef	761	14.8	1.0	30	21	AAc64612	S. enteritidis sef
c 589	14.8	1.0	26	21	AA46067	Human G protein co	762	14.8	1.0	30	21	AAc93999	Antiviral vector p
c 590	14.8	1.0	26	22	AA512892	Human 16k alpha3 m	763	14.8	1.0	30	21	AA65373	NDO alpha subunit
c 591	14.8	1.0	27	12	AAQ12511	Probe for detectio	c 764	14.8	1.0	30	21	AA34513	Human adenosine re
c 592	14.8	1.0	27	16	AAQ98485	E2 promoter sequen	c 765	14.8	1.0	30	21	AA08132	MOMP containing fu
c 593	14.8	1.0	27	17	AA744348	Decorin binding pr	c 766	14.8	1.0	30	22	AA014231	Synthetic transcri
c 594	14.8	1.0	27	18	AA68572	Human flt1 VEGF re	c 767	14.8	1.0	30	22	AAH75387	Human mitochondria
c 595	14.8	1.0	27	18	AAV19205	B. burgdorferi dpba	768	14.8	1.0	30	22	AA82171	Human ADAM type me
c 596	14.8	1.0	27	18	AA788184	Reverse primer for	c 769	14.8	1.0	30	22	AA84321	Mutagenic PCR prim
c 597	14.8	1.0	27	18	AA760311	Human presenilin p	770	14.8	1.0	30	22	AA84323	Mutagenic PCR prim
c 598	14.8	1.0	27	18	AA760313	Human presenilin p	c 771	14.8	1.0	30	22	AAc86893	PCR primer for a h
c 599	14.8	1.0	27	19	AAV94188	Mouse IL-2 recepto	c 772	14.8	1.0	30	22	AA02184	Beet western yello
c 600	14.8	1.0	27	19	AAV96890	Potato citrate syn	c 773	14.8	1.0	30	22	AA501441	Hepatitis E virus
c 601	14.8	1.0	27	19	AAV96244	Solanidine glucosy	c 774	14.8	1.0	30	23	AA595165	Otoferlin exon/int
c 602	14.8	1.0	27	19	AAV41481	Human alpha-1-AT m	c 775	14.8	1.0	30	24	ABA92553	Adenovirus 5 relat
c 603	14.8	1.0	27	20	AA793318	Human lymphocytic	c 776	14.6	1.0	15	24	AAZ26053	Human apolipoprote
c 604	14.8	1.0	27	21	AA021206	PCR primer SBB0192	c 777	14.6	1.0	21	14	AAQ51884	PML mRNA ribozyme
c 605	14.8	1.0	27	21	AA262301	Hammerhead ribozym	c 778	14.6	1.0	21	18	AAV64977	Rat-specific OB re
c 606	14.8	1.0	27	22	AA509840	Capture probe for	c 779	14.6	1.0	21	19	AAV34646	Cylindrocapon des
c 607	14.8	1.0	27	22	AA01946	Vilil19 PCR primer	780	14.6	1.0	21	20	AAZ25092	Human MEK3 PCR pr
c 608	14.8	1.0	27	22	AAc86306	Primer #8. Acinet	c 781	14.6	1.0	21	20	AAZ08412	PCR primer used fo
c 609	14.8	1.0	28	13	AAQ28978	Sequence of PCR pr	782	14.6	1.0	21	20	AAZ08412	PCR primer used fo
c 610	14.8	1.0	28	19	AAV73346	Human somatostatin	783	14.6	1.0	21	20	AAZ26952	PCR primer for HPV
c 611	14.8	1.0	28	19	AAV02106	Primer S5-1 for hc	784	14.6	1.0	21	20	AAZ22000	PCR primer for HPV
c 612	14.8	1.0	28	20	AAH87182	Fibroblast growth	785	14.6	1.0	21	21	AAc86522	PCR primer used to
c 613	14.8	1.0	28	21	AA339181	Human somatostatin	c 786	14.6	1.0	21	21	AAZ34465	Human 15 kba selen
c 614	14.8	1.0	28	21	AA339191	Human somatostatin	c 787	14.6	1.0	21	22	AAI71272	Human CD14 related
c 615	14.8	1.0	28	21	AAZ31494	Human SSTR5 DNA am	c 788	14.6	1.0	21	22	AAI71283	Human gene single
c 616	14.8	1.0	28	22	AAH86147	Xylanase mutagenic	789	14.6	1.0	21	22	AAI71283	Human gene single
c 617	14.8	1.0	28	22	AAH86147	PCR primer h used	790	14.6	1.0	21	23	AAH89218	Human polymorphic
c 618	14.8	1.0	28	22	AAH86147	PCR primer h used	791	14.6	1.0	21	23	ABA10078	Tail primer #71 fr
c 619	14.8	1.0	28	23	AB197606	Endogenous human G	792	14.6	1.0	21	24	AA033336	S chrysomallus act
c 620	14.8	1.0	29	14	AAQ52454	Nucleic acid ligan	793	14.6	1.0	22	12	AA014243	Primer CML1. Synt
c 621	14.8	1.0	29	14	AAQ52454	Feline enteric cor	794	14.6	1.0	22	16	AAQ86634	Non-promoter prime
c 622	14.8	1.0	29	15	AAQ66000	CO2AL 3' -primer (	795	14.6	1.0	22	16	AAQ86627	CML chromosomal tr
c 623	14.8	1.0	29	17	AA070683	NGF SELEX clone ng	796	14.6	1.0	22	17	AA742418	CML-2 chromosomal
c 624	14.8	1.0	29	18	AAV00772	SELEX ligand ngf.k	797	14.6	1.0	22	17	AAI75572	CML-2 chromosomal
c 625	14.8	1.0	29	18	AA69598	Human Ob receptor	798	14.6	1.0	22	18	AAI75572	Human BCR 5' RT-PC
c 626	14.8	1.0	29	19	AAV61391	Human fusin gene p	799	14.6	1.0	22	19	AAI75572	Primer BB300b for
c 627	14.8	1.0	29	19	AAV45553	SELEX identified l	800	14.6	1.0	22	19	AAV66350	CML-2 chromosomal
c 628	14.8	1.0	29	20	AAV73018	Human foetal brain	c 801	14.6	1.0	22	19	AAV66352	CML-2 chromosomal
c 629	14.8	1.0	29	20	AAV79632	RNA ligand sequenc	802	14.6	1.0	22	20	AAH79672	Human LKB1 gene pr
c 630	14.8	1.0	29	21	AAF00258	Hammerhead ribozym	c 803	14.6	1.0	22	20	AAZ32303	CML t(14; 18) non-
c 631	14.8	1.0	29	21	AAF06671	Hammerhead ribozym	804	14.6	1.0	22	21	AAA87602	Rat hepatocyte car
c 632	14.8	1.0	29	21	AA762328	E. coli proL tRNA	c 805	14.6	1.0	22	21	AAA10259	Fibrinogen B-beta
c 633	14.8	1.0	29	21	AA92732	Nerve growth facto	806	14.6	1.0	22	21	AA298448	Human betal-adreno
c 634	14.8	1.0	29	21	AA24587	Oestrogen receptor	c 807	14.6	1.0	23	21	AA59254	PCR primer used to
c 635	14.8	1.0	29	21	AA03801	Polymorphic fragme	c 808	14.6	1.0	23	21	AAZ98446	Human betal-adreno
c 636	14.8	1.0	29	21	AAA04112	Polymorphic fragme	809	14.6	1.0	23	24	ABL31896	Human CYP11B2 prob
c 637	14.8	1.0	29	21	AA04112	Polymorphic fragme	810	14.6	1.0	24	11	AAQ04995	Sequence binding t
c 638	14.8	1.0	29	21	AA04430	Polymorphic fragme	811	14.6	1.0	24	14	AAQ36277	APP7par, targetted
c 639	14.8	1.0	29	21	AA04493	Polymorphic fragme	812	14.6	1.0	24	15	AAQ62649	Tobacco-mosaic vir

c 813	14.6	1.0	24	16	AAQ807070	mRNA to cDNA trans	c 886	14.6	1.0	28	19	AAV32759	Human interferon-a
c 814	14.6	1.0	24	18	AAT79017	Human hypoxanthine	c 887	14.6	1.0	28	20	AAx81738	Reverse PCR primer
c 815	14.6	1.0	24	18	AAT76285	Human neutrophil o	c 888	14.6	1.0	28	20	AAx32522	Reverse primer for
c 816	14.6	1.0	24	19	AAV19291	H. insulens Cellul	c 889	14.6	1.0	28	21	AA298436	Human betal-adreno
c 817	14.6	1.0	24	20	AAT28077	Human KS antigen (	c 890	14.6	1.0	28	21	AA291673	PCR primer for bar
c 818	14.6	1.0	24	20	AAZ30096	Forward PCR primer	c 891	14.6	1.0	28	21	AAZ45486	Reverse PCR primer
c 819	14.6	1.0	24	20	AAx54080	Neutrophil oxidase	c 892	14.6	1.0	28	21	AAZ37385	PCR primer for bar
c 820	14.6	1.0	24	20	AAx23226	A. thaliana EL2 ge	c 893	14.6	1.0	28	22	AAZ44039	Neisseria meningit
c 821	14.6	1.0	24	21	AAF19646	Human neutrophil o	c 894	14.6	1.0	28	22	AAH23963	Tumour antigen 17-
c 822	14.6	1.0	24	21	AAx96665	PCR primer used to	c 895	14.6	1.0	28	22	AAH23963	Streptomyces hygro
c 823	14.6	1.0	24	21	AAx12381	Human PRV-1 PCR pr	c 896	14.6	1.0	28	22	AAH23963	Streptomyces hygro
c 824	14.6	1.0	24	21	AAx12382	Human PRV-1 PCR pr	c 897	14.6	1.0	28	22	AAH23963	Streptomyces hygro
c 825	14.6	1.0	24	21	AAx33524	Low adenosine anti	c 898	14.6	1.0	28	22	AAH23963	Streptomyces hygro
c 826	14.6	1.0	24	21	AAZ98444	Human betal-adreno	c 899	14.6	1.0	28	23	AAZ14924	Bar gene PCR prime
c 827	14.6	1.0	24	21	AAZ90946	Human betal-adreno	c 900	14.6	1.0	28	23	AAZ14924	Bar gene reverse p
c 828	14.6	1.0	24	21	AAZ90974	cDNA synthesis 3'	c 901	14.6	1.0	29	15	AAQ65054	External guide seq
c 829	14.6	1.0	24	22	AAH45882	cDNA synthesis 3'	c 902	14.6	1.0	29	15	AAQ65054	Antisense oligonuc
c 830	14.6	1.0	24	22	AAH45882	Human DnaJ protein	c 903	14.6	1.0	29	15	AAQ65054	Antisense oligonuc
c 831	14.6	1.0	24	22	AAH45882	Human PRV-1 DNA se	c 904	14.6	1.0	29	16	AAQ82802	MnSOD N-terminal p
c 832	14.6	1.0	24	22	AAH45882	Human PRV-1 DNA an	c 905	14.6	1.0	29	16	AAQ82802	Primer used for am
c 833	14.6	1.0	24	22	AAH45882	Human cyclic nucle	c 906	14.6	1.0	29	16	AAQ82802	B. catarrhalis CD e
c 834	14.6	1.0	24	22	AAH45882	Murine FC domain p	c 907	14.6	1.0	29	17	AAQ82802	Human bone morphog
c 835	14.6	1.0	24	22	AAH45882	Maize Ms*5126 codi	c 908	14.6	1.0	29	18	AAQ82802	Primer 8201RN, amp
c 836	14.6	1.0	24	24	AB188618	Capture oligonucle	c 909	14.6	1.0	29	18	AAQ82802	Bone morphogenetic
c 837	14.6	1.0	24	24	AB188619	Capture oligonucle	c 910	14.6	1.0	29	19	AAQ82802	Antisense oligonuc
c 838	14.6	1.0	25	16	AAQ84641	Human wild type C3	c 911	14.6	1.0	29	20	AAQ82802	Human adenosine Al
c 839	14.6	1.0	25	16	AAQ84641	5' UTR oligo probe	c 912	14.6	1.0	29	20	AAQ82802	Primer for amplify
c 840	14.6	1.0	25	16	AAQ84641	Reverse complement	c 913	14.6	1.0	29	21	AAQ82802	Human p53 gene PCR
c 841	14.6	1.0	25	16	AAQ84641	CD59 oligo 5 -- 5'	c 914	14.6	1.0	29	21	AAQ82802	Human adenosine Al
c 842	14.6	1.0	25	18	AAH96999	Presenilin-2 alter	c 915	14.6	1.0	29	21	AAQ82802	E. coli glyu tRNA
c 843	14.6	1.0	25	18	AAH96999	Duck hepatitis B v	c 916	14.6	1.0	29	21	AAQ82802	Ral2 sequence PCR
c 844	14.6	1.0	25	19	AAH96999	Nucleotide sequenc	c 917	14.6	1.0	29	21	AAQ82802	PCR primer 163 use
c 845	14.6	1.0	25	20	AAH96999	S. pneumoniae xant	c 918	14.6	1.0	29	21	AAQ82802	Low adenosine anti
c 846	14.6	1.0	25	20	AAH96999	PCR primer for xan	c 919	14.6	1.0	29	21	AAQ82802	Hepatitis type C v
c 847	14.6	1.0	25	21	AAH96999	Oligonucleotide us	c 920	14.6	1.0	29	21	AAQ82802	Human betal-adreno
c 848	14.6	1.0	25	21	AAH96999	HLA DQB gene PCR p	c 921	14.6	1.0	29	21	AAQ82802	Human adenosine Al
c 849	14.6	1.0	25	22	AAH96999	Human betal-adreno	c 922	14.6	1.0	29	21	AAQ82802	Polymorphic fragme
c 850	14.6	1.0	25	22	AAH96999	Tumour antigen 17-	c 923	14.6	1.0	29	22	AAH96999	Polymorphic fragme
c 851	14.6	1.0	25	22	AAH96999	SNP specific SNPE	c 924	14.6	1.0	29	22	AAH96999	Human BMP-12 ampli
c 852	14.6	1.0	25	22	AAH96999	Dog leukocyte inte	c 925	14.6	1.0	29	22	AAH96999	A. thaliana L-gald
c 853	14.6	1.0	25	24	ABA03407	Human myc PCR prim	c 926	14.6	1.0	29	22	AAH96999	Neisseria meningit
c 854	14.6	1.0	26	18	AAH96999	5' PCR primer 1 fo	c 927	14.6	1.0	29	22	AAH96999	Human breast cance
c 855	14.6	1.0	26	19	AAH96999	Super heat resista	c 928	14.6	1.0	29	22	AAH96999	Human alpha1,2-man
c 856	14.6	1.0	26	19	AAH96999	Telomeric nucleic	c 929	14.6	1.0	29	22	AAH96999	Human alpha1,2-man
c 857	14.6	1.0	26	20	AAH96999	PCR primer used to	c 930	14.6	1.0	29	22	AAH96999	Mazie acetolactate
c 858	14.6	1.0	26	20	AAH96999	C/EBP-beta antisen	c 931	14.6	1.0	29	23	ABA95405	Thermus thermophil
c 859	14.6	1.0	26	21	AAH96999	Human C/EBP polyu	c 932	14.6	1.0	30	13	AAQ06521	Probe/primer TB-10
c 860	14.6	1.0	26	21	AAH96999	Tobacco mosaic vir	c 933	14.6	1.0	30	13	AAQ06521	Immunostimulatory
c 861	14.6	1.0	26	21	AAH96999	Human adenosine re	c 934	14.6	1.0	30	14	AAQ06521	DNA sequence used
c 862	14.6	1.0	26	21	AAH96999	Human betal-adreno	c 935	14.6	1.0	30	14	AAQ06521	B-cell mRNA ribozy
c 863	14.6	1.0	26	21	AAH96999	Primer amplifying	c 936	14.6	1.0	30	15	AAQ06521	Antisense oligonuc
c 864	14.6	1.0	26	21	AAH96999	Tobacco mosaic vir	c 937	14.6	1.0	30	15	AAQ06521	Antisense oligonuc
c 865	14.6	1.0	26	22	ABA82552	Zmax1 gene region	c 938	14.6	1.0	30	15	AAQ06521	E. coli reca promo
c 866	14.6	1.0	26	22	ABA82552	T. vulgaris (fuv)	c 939	14.6	1.0	30	15	AAQ06521	Huntingtin DNA pri
c 867	14.6	1.0	26	22	AAH44347	Human PRO1383 forw	c 940	14.6	1.0	30	16	AAQ06521	Mycobacterium tube
c 868	14.6	1.0	26	22	AAH44347	Tvu DNA polymerase	c 941	14.6	1.0	30	17	AAH44347	Alr7/2 PCR primer
c 869	14.6	1.0	26	23	AB197664	Endogenous human G	c 942	14.6	1.0	30	17	AAH44347	Probe for 65 kd an
c 870	14.6	1.0	26	24	AAI69456	Human tumour-assoc	c 943	14.6	1.0	30	17	AAH44347	Primer #1 for secr
c 871	14.6	1.0	27	16	AAQ75092	SP6 promoter used	c 944	14.6	1.0	30	17	AAH44347	3' primer for chlo
c 872	14.6	1.0	27	18	AAH74305	Mouse flt-1 VEGF r	c 945	14.6	1.0	30	17	AAH44347	Chloramphenicol ac
c 873	14.6	1.0	27	18	AAH74305	Mouse flt-1 VEGF r	c 946	14.6	1.0	30	18	AAH74305	PCR primer 2 used
c 874	14.6	1.0	27	18	AAH74305	Bovine pituitary d	c 947	14.6	1.0	30	18	AAH74305	Glycosylated linke
c 875	14.6	1.0	27	18	AAH74305	Human EGF-R hamme	c 948	14.6	1.0	30	18	AAH74305	Glycosylated linke
c 876	14.6	1.0	27	19	AAH74305	Human EGF-R hamme	c 949	14.6	1.0	30	19	AAH74305	Antisense oligonuc
c 877	14.6	1.0	27	19	AAH74305	Human native inter	c 950	14.6	1.0	30	19	AAH74305	Antisense oligonuc
c 878	14.6	1.0	27	20	AAH74305	Primer S82 for iso	c 951	14.6	1.0	30	19	AAH74305	Reca gene upper PC
c 879	14.6	1.0	27	20	AAH74305	PCR primer FC used	c 952	14.6	1.0	30	19	AAH74305	Antisense PCR prim
c 880	14.6	1.0	27	20	AAH74305	Bovine pituitary-d	c 953	14.6	1.0	30	19	AAH74305	Streptomyces sp. 3
c 881	14.6	1.0	27	21	AAH74305	PCR primer for cDN	c 954	14.6	1.0	30	19	AAH74305	Human CD33-like pr
c 882	14.6	1.0	27	21	AAH74305	Human betal-adreno	c 955	14.6	1.0	30	19	AAH74305	3' primer flanking
c 883	14.6	1.0	27	22	AAH74305	PCR primer GSPl fo	c 956	14.6	1.0	30	20	AAH74305	HTRT sequence-spec
c 884	14.6	1.0	28	17	AAH74305	Primer for amplify	c 957	14.6	1.0	30	20	AAH74305	HTRT sequence-spec
c 885	14.6	1.0	28	17	AAH74305		c 958	14.6	1.0	30	20	AAH74305	HTRT sequence-spec

c 959	14.6	1.0	30	20	AAZ08198
960	14.6	1.0	30	20	AAZ20248
961	14.6	1.0	30	20	AAZ35327
962	14.6	1.0	30	20	AAZ53503
963	14.6	1.0	30	20	AAZ27688
964	14.6	1.0	30	21	AAF19068
965	14.6	1.0	30	21	AAF19092
966	14.6	1.0	30	21	AAA30583
967	14.6	1.0	30	21	AAA12702
968	14.6	1.0	30	21	AAA23946
969	14.6	1.0	30	21	AAZ32970
970	14.6	1.0	30	21	AAZ82971
c 971	14.6	1.0	30	21	AAZ99604
c 972	14.6	1.0	30	21	AAZ98432
c 973	14.6	1.0	30	21	AAZ05776
974	14.6	1.0	30	21	AAA03305
975	14.6	1.0	30	21	AAZ03329
976	14.6	1.0	30	21	AAZ55760
c 977	14.6	1.0	30	21	AAZ35116
978	14.6	1.0	30	22	AAZ48799
c 979	14.6	1.0	30	22	AAZ11195
c 980	14.6	1.0	30	22	AAH48057
c 981	14.6	1.0	30	22	AAH84350
982	14.6	1.0	30	22	AAZ10035
c 983	14.6	1.0	30	22	AAH39086
c 984	14.6	1.0	30	22	AAH89144
c 985	14.6	1.0	30	22	AAZ30742
c 986	14.6	1.0	30	22	AAZ30754
c 987	14.6	1.0	30	22	AAH81695
988	14.6	1.0	30	22	AAH77021
989	14.6	1.0	30	22	AAZ32454
990	14.6	1.0	30	22	AAZ59095
991	14.6	1.0	30	22	AAZ28773
992	14.6	1.0	30	22	AAZ67632
993	14.6	1.0	30	22	AAZ61717
c 994	14.6	1.0	30	22	AAH47183
c 995	14.6	1.0	30	23	AAZ95159
996	14.6	1.0	30	23	AAZ95184
997	14.6	1.0	30	23	AAZ95201
998	14.6	1.0	30	23	AB197620
c 999	14.6	1.0	30	24	AA168071
c1000	14.6	1.0	30	24	AA168081

ALIGNMENTS

RESULT	1	
AAZ93433/C		
ID	AAZ93433	standard; DNA; 22 BP.
XX	AAZ93433;	
XX	AC	
XX	AC	
DT	24-JUL-2000	(first entry)
XX		
DE	Reverse primer for amplifying TRADD gene.	
XX		
XX	TRADD; TNF; tumour necrosis factor; NF-kappaB; programmed cell death; antisense; inhibit	
KW	septic shock; inflammation; cancer; anti-	
KW	polymerase chain reaction; primer; ss.	
XX		
OS	Synthetic.	
XX		
PN	WO200012527-A1.	
XX		
PD	09-MAR-2000.	
XX		
PF	25-AUG-1999;	99WO-US19614.
XX		
PR	28-AUG-1998;	98US-0143212.
XX		
PA	(ISIS-) ISIS PHARM INC.	

HTERT sequence-spec
 Raffinose synthase
 Human adenosine A1
 Human adenosine A1
 Human adenosine A1
 Internal repeat ol
 Human adenosine A1
 Human adenosine A1
 Human G protein-co
 Primer for bifunct
 Low adenosine anti
 Low adenosine anti
 Human MCM7 PCR pri
 5' PCR primer used
 Human beta1-adreno
 Streptavidin displ
 Human adenosine A1
 Human adenosine A1
 TGMV AL2 gene (Tra
 Human constant dom
 Bovine TSH primer
 P. aeruginosa gene
 PCR primer #3. Ho
 Human cell death p
 Mouse Nope (neighb
 SNP specific lower
 Site-1 protease fu
 Human psk-1 gene s
 Human psk-1, psk-2
 Herpes simplex vir
 Part of bovine der
 Pseudomonas aerugi
 Rat MLP PCR primer
 HIV detection prob
 PCR primer Rhlr-C
 Human TSHR associa
 Nucleotide sequenc
 Otoferlin exon/int
 Otoferlin exon/int
 Otoferlin exon/int
 Endogenous human G
 2-methyl-epothilin
 6-desmethyl-epothi

XX	Monia BP, Cowsert LM;			
XX	WPI; 2000-237846/20.			
XX				
XX	New antisense compounds that limit the expression of human TRADD			
PT	protein, useful in the treatment and diagnosis of cancer, inflammation			
PT	and septic shock			
XX				
XX	Example 13; Page 49; 85pp; English.			
XX				
CC	The intracellular protein TRADD has been identified as a critical			
CC	link between tumour necrosis factor (TNF) receptor binding and			
CC	downstream activation of NF-kappa-B. Overexpression of native TRADD			
CC	activates NF-kappa-B in the absence of TNF and dominant negative			
CC	mutants of TRADD block TNF-induced NF-kappa-B activation. A second			
CC	effect of TNF in many cell types is the induction of apoptosis			
CC	(programmed cell death). TRADD overexpression has been shown to			
CC	mimic TNF induction of apoptosis as well. Data indicates that TRADD			
CC	and other downstream effector proteins are the rate limiting step			
CC	of TNF action and would therefore serve as the most efficient			
CC	targets for inhibition of TNF-induced events. Antisense			
CC	oligonucleotides capable of inhibiting TRADD function may therefore			
CC	be useful in a number of therapeutic, diagnostic and research			
CC	applications. Inhibiting expression of TRADD by contacting human			
CC	cells or tissues with the antisense compound may be used to treat a			
CC	disease or condition associated with TRADD expression, for example,			
CC	septic shock, inflammation, or cancer. TRADD antisense			
CC	oligonucleotides of varying inhibitory capabilities are listed in			
CC	GENESEQ records AA293438-293517. Two primers (AA293432, AA293433) were			
CC	used to amplify the human TRADD gene.			
XX				
SQ	Sequence 22 BP; 4 A; 8 C; 3 G; 7 T; 0 other;			
	Query Match 1-5%; Score 22; DB 21; Length 22;			
	Best Local Similarity 100.0%; Pred. No. 1.e+05;			
	Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps			
Qy	494 atgaagaactggctgagctgga 515			
Db	22 ATGAAGAAC'TGGCTGAGCTGGA 1			

XX Human FD14 polypeptides and polynucleotides encoding it -
PT Example 2; Page 16 (Disclosure); 32pp; Chinese.
PS
XX The present invention relates to human FD14 (AAM47799). FD14 and its
CC coding sequence are useful for treating several diseases, such as
CC malignant tumours, embryo and tissue maldevelopment, immunodeficiency
CC diseases, various acquired and hereditary disease and immune disease.
CC The present sequence is a PCR primer, which was used in an example from
CC the present invention.
XX
SQ Sequence 24 BP; 0 A; 6 C; 16 G; 2 T; 0 other;

Query Match 1.5%; Score 22; DB 24; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 620 agcgcgcgcgcgcgcgcacc 641
Db 23 AGCGCGCGCGCGCGCCACC 2

RESULT 3
ID AAA64342/C
XX AAA64342 standard; DNA; 28 BP.
AC AAA64342;
XX
DT 20-DEC-2000 (first entry)
XX
DE Forward PCR primer used to amplify cDNA encoding Erk2.
XX
KW Conformational state; post-translational modification; enzyme activity;
KW Erk2; protein kinase; PCR primer; ss.
XX
OS Rattus sp.
XX
PN WO200050901-A1.
XX
PD 31-AUG-2000.
XX
PF 25-FEB-2000; 2000WO-GB00668.
XX
PR 25-FEB-1999; 99GB-0004395.
XX
PA (FLUO-) FLUORESCENCE LTD.
XX
PI Colyer J, Craig RK;
XX
DR WPI; 2000-565475/52.
XX
PT Determining the conformational state of a protein, comprises contacting
PT the protein with a labeled binding protein and assessing the labeling
PT of the protein -
XX
PS Example 4; Page 39; 56pp; English.
XX
CC The specification describes a method for determining the conformational
CC state of a protein. The method uses at least one labelled binding
CC partner capable of binding to the protein in a manner dependent on the
CC conformational state of the protein. The method is for detecting the
CC conformational state of a protein, for detecting post-translational
CC modifications of proteins, and for determining the activity of an
CC enzyme. PCR primers AAA64342-43 were used to amplify cDNA encoding full
CC length rat Erk2 protein kinase. Erk2 is used in the method of the
CC invention, which is used for detection of conformation change of Erk2
CC protein kinase due to phosphorylation.
XX
SQ Sequence 28 BP; 2 A; 7 C; 17 G; 2 T; 0 other;

Query Match 1.5%; Score 21.8; DB 21; Length 28;
Best Local Similarity 92.0%; Pred. No. 2e+05;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 621 gcgcgcgcgcgcgcgcaccctgcc 645
Db 25 GCGCGCGCGCGCGCCCATATGCC 1

RESULT 4
ID AAH62242 standard; DNA; 21 BP.
XX
AC AAH62242;
XX
DT 12-SEP-2001 (first entry)
XX
DE TNF receptor type 1 polymorphism containing DNA fragment #143.
XX
KW Single nucleotide polymorphism; SNP; human; cancer; inflammation;
KW heart disease; paternity testing; forensic science; ds.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Variation replace(11,T)
FT /*tag= a
FT /standard_name= "single nucleotide polymorphism"
XX
PN WO200138576-A2.
XX
PD 31-MAY-2001.
XX
PF 17-NOV-2000; 2000WO-US31639.
XX
PR 24-NOV-1999; 99US-0167334.
XX
XX (WHED) WHITEHEAD INST BIOMEDICAL RES.
XX
PI Cargill M, Ireland JS, Lander ES;
XX
DR WPI; 2001-367705/38.
XX
PT New nucleic acid segments of the human genome, particularly from genes
PT including polymorphic sites, for phenotype correlation, forensics,
PT paternity testing, medicine and genetic analysis -
XX
PS Claim 1; Page 41; 80pp; English.
XX
CC DNA sequences AAH62100 - AAH62688 represent segments of human genes which
CC contain single nucleotide polymorphisms (SNPs). A method is included in
CC the invention for analysing a nucleic acid sample, which consists of
CC determining the base occupying any one of the polymorphic sites given in
CC the SNP containing sequences. The nucleotide sequences can be used in the
CC diagnosis or monitoring of diseases, such as cancer, inflammation, heart
CC diseases, diseases of the cardiovascular system, and infection by
CC microorganisms. The oligonucleotides are also useful in the manufacture
CC of a medicament for the treatment or prophylaxis of the diseases, and as
CC a pharmaceutical. SNP containing oligonucleotides are useful in
CC applications such as phenotype correlation, forensics, paternity testing,
CC medicine and genetic analysis.
XX
SQ Sequence 21 BP; 3 A; 6 C; 7 G; 5 T; 0 other;

Query Match 1.5%; Score 21; DB 22; Length 21;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 794 tggactcgtcggcctacgagt 814
Db 1 tggactcgtcggcctacgagt 21

```
RESULT 5
AAH62243
ID AAH62243 standard; DNA; 21 BP.
XX
AC AAH62243;
XX
DT 12-SEP-2001 (first entry)
XX
DE TNF receptor type 1 polymorphism containing DNA fragment #144.
XX
KW Single nucleotide polymorphism; SNP; human; cancer; inflammation;
heart disease; paternity testing; forensic science; ds.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Variation replace(11,f)
FT /*tag= a
FT /standard_name= "single nucleotide polymorphism"
XX
PN WO200138576-A2.
XX
PD 31-MAY-2001.
XX
PF 17-NOV-2000; 2000WO-US31639.
XX
PR 24-NOV-1999; 99US-0167334.
XX
PA (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX
PI Cargill M, Ireland JS, Lander ES;
XX
DR WPI; 2001-367705/38.
XX
DT New nucleic acid segments of the human genome, particularly from genes
including polymorphic sites; for phenotype correlation, forensics,
paternity testing, medicine and genetic analysis -
XX
PS Claim 1; Page 41; 80pp; English.
XX
CC DNA sequences AAH62100 - AAH62688 represent segments of human genes which
contain single nucleotide polymorphisms (SNPs). A method is included in
the invention for analysing a nucleic acid sample, which consists of
determining the base occupying any one of the polymorphic sites given in
the SNP containing sequences. The nucleotide sequences can be used in the
diagnosis or monitoring of diseases, such as cancer, inflammation, heart
diseases, diseases of the cardiovascular system, and infection by
microorganisms. The oligonucleotides are also useful in the manufacture
of a medicament for the treatment or prophylaxis of the diseases, and as
a pharmaceutical. SNP containing oligonucleotides are useful in
applications such as phenotype correlation, forensics, paternity testing,
medicine and genetic analysis.
XX
SQ Sequence 21 BP; 4 A; 7 C; 6 G; 4 T; 0 other;

Query Match 1.5%; Score 21; DB 22; Length 21;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 827 gactgtacgagcagccttcc 847
|||||
Db 1 gactgtacgagcagccttcc 21

RESULT 6
AAF97007
ID AAF97007 standard; DNA; 21 BP.
XX
AC AAF97007;
XX
DT 06-JUN-2001 (first entry)
XX
```

```
XX Human gene single nucleotide polymorphism #1768.
DE
XX
KW Human; variant thrombospondin 1; variant thrombospondin 4; SNP;
polymorphism; vascular disease; coronary artery disease; forensics;
myocardial infarction; atherosclerosis; stroke; venous thromboembolism;
pulmonary embolism; paternity test; ds.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Variation replace(11,C)
FT /*tag= a
FT /standard_name= "single nucleotide polymorphism"
XX
PN WO200118250-A2.
XX
PD 15-MAR-2001.
XX
PF 07-SEP-2000; 2000WO-US24503.
XX
PR 10-SEP-1999; 99US-0153357.
PR 26-JUL-2000; 2000US-0220947.
PR 16-AUG-2000; 2000US-0225724.
XX
PA (WHED ) WHITEHEAD INST BIOMEDICAL RES.
(MILL-) MILLENNIUM PHARM INC.
XX
PI Lander ES, Gargill M, Ireland JS, Bolk S, Daley GQ, McCarthy JJ;
XX
DR WPI; 2001-226749/23.
XX
DT Nucleic acids comprising single nucleotide polymorphisms, useful in
applications such as forensics, paternity testing, medicine, genetic
analysis and phenotype correlations to diseases such as diabetes and
atherosclerosis -
XX
PS Examples: Page 165; 242pp; English.
XX
CC The present invention provides a method of diagnosing a vascular disease
in an individual, involving determining the sequence at various
polymorphic sites within the human thrombospondin 1 and thrombospondin 4
genes. The sequences at a number of polymorphic sites are also provided
in the specification. In particular, the method can be used in the
diagnosis of atherosclerosis, myocardial infarction, coronary heart
disease, stroke, peripheral vascular diseases, venous thromboembolism
and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also
useful in forensics, paternity testing, genetic analysis and phenotype
correlations to diseases. The present sequence is an example of one of
the human gene SNPs shown in the specification.
XX
SQ Sequence 21 BP; 3 A; 6 C; 7 G; 5 T; 0 other;

Query Match 1.5%; Score 21; DB 22; Length 21;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 670 cctgtagtgaatcgccgctg 690
|||||
Db 1 cctgtagtgaatcgccgctg 21

RESULT 7
AAF97008
ID AAF97008 standard; DNA; 21 BP.
XX
AC AAF97008;
XX
DT 06-JUN-2001 (first entry)
XX
DE Human gene single nucleotide polymorphism #1769.
XX
```

KW Human; variant thrombospondin 1; variant thrombospondin 4; SNP;
 KW polymorphism; vascular disease; coronary artery disease; forensics;
 KW myocardial infarction; atherosclerosis; stroke; venous thromboembolism;
 KW pulmonary embolism; paternity test; ds.
 OS Homo sapiens.
 XX

FH Key Location/Qualifiers
 FT Variation replace(11,A)
 FT /*tag= a
 FT /standard_name= "single nucleotide polymorphism"

XX WO200118250-A2.
 XX 15-MAR-2001.
 XX 07-SEP-2000; 2000WO-US24503.
 XX 10-SEP-1999; 99US-0153357.
 PR 26-JUL-2000; 2000US-0220947.
 PR 16-AUG-2000; 2000US-0225724.
 XX (WHED) WHITEHEAD INST BIOMEDICAL RES.
 PA (MILL-) MILLENNIUM PHARM INC.
 XX Lander ES, Gargill M, Ireland JS, Bolk S, Daley GO, McCarthy JJ;
 XX WPI; 2001-226749/23.
 XX Nucleic acids comprising single nucleotide polymorphisms, useful in
 PT applications such as forensics, paternity testing, medicine, genetic
 PT analysis and phenotype correlations to diseases such as diabetes and
 PT atherosclerosis -
 XX Examples; Page 165; 242pp; English.
 PS The present invention provides a method of diagnosing a vascular disease
 CC in an individual, involving determining the sequence at various
 CC polymorphic sites within the human thrombospondin 1 and thrombospondin 4
 CC genes. The sequences at a number of polymorphic sites are also provided
 CC in the specification. In particular, the method can be used in the
 CC diagnosis of atherosclerosis, myocardial infarction, coronary heart
 CC disease, stroke, peripheral vascular diseases, venous thromboembolism
 CC and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also
 CC useful in forensics, paternity testing, genetic analysis and phenotype
 CC correlations to diseases. The present sequence is an example of one of
 CC the human gene SNPs shown in the specification.
 XX Sequence 21 BP; 2 A; 6 C; 10 G; 3 T; 0 other;
 SQ

Query Match 1-5%; Score 21; DB 22; Length 21;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 890 cgtgcagcgctgtgtgagg 910
 DB 1 cgtgcagcgctgtgtgagg 21
 |||||
 |||||

RESULT 8
 ID ABA02836/c
 XX ABA02836 standard; DNA; 29 BP.
 XX ABA02836;
 XX 18-FEB-2002 (first entry)
 DE Human alpha-2CAR nucleotides 953-981.
 XX Human; genotyping; alpha-2B; alpha-2A; alpha-2C; adrenergic receptor;
 KW polymorphic site; allelic variant; cardiovascular disease;
 KW central nervous system disease; adenylyl cyclase; MAP kinase activity;

KW phosphorylation; inositol phosphate; alpha-2CAR; ss.
 XX Homo sapiens.
 OS WO200179561-A2.
 XX 25-OCT-2001.
 XX 17-APR-2001; 2001WO-US12575.
 XX 17-APR-2000; 2000US-0551744.
 PR 10-AUG-2000; 2000US-0636259.
 PR 19-OCT-2000; 2000US-0692077.
 XX (LIGG/) LIGGETT S B.
 PA (SMAL/) SMALL K M.
 XX Liggett SB, Small KM;
 PI WPI; 2001-611728/70.
 DR Genotyping an alpha-2B, 2A, or 2C adrenergic receptor gene useful for
 XX determining whether an individual is at increased risk of developing a
 PT disease associated with the corresponding receptor comprises detecting
 PT a polymorphic site -
 XX Examples 15-21; Fig 11; 163pp; English.
 PS The invention relates to genotyping an alpha-2B, 2A, or 2C adrenergic
 CC receptor gene (I)-(III) by detecting a polymorphic site, comprising:
 CC (a) obtaining a sample having a polynucleotide encoding an alpha-2B,
 CC alpha2A or alpha2C or fragment or complement of; and
 CC (b) detecting a polymorphic site comprising nucleotide positions 901-909
 CC of (I), a site comprising cytosine or guanine at position 753 of (IIV)
 CC or a site comprising (A) (ggggcgggcg) or (B) (ggggcggtgag) at
 CC positions 961-972 of (III). The method may be used for genotyping an
 CC alpha2B, alpha2A or alpha2C receptor gene and further used to determine
 CC whether an individual is at increased risk of developing a disease
 CC associated with alpha2B, alpha2A or alpha2C, comprising detecting a
 CC polymorphic site which correlate to disease selected from cardiovascular
 CC disease, central nervous system disease and combinations of these. In
 CC addition, the technique may be used to predict an individual's response
 CC to an alpha2B, alpha2A, or alpha2C agonist (e.g. epinephrine,
 CC norepinephrine, clonidine, oxymetazoline, guanabenz, UK14304, BHT933 and
 CC combinations of these) or antagonist (e.g. yohimbine, prazosin, ARC 239,
 CC rauwolfscine, idazoxan, tolazoline, phentolamine and combinations of
 CC these) by detecting the polymorphic site and correlating the site to a
 CC predetermined response (where the response is correlated to adenylyl
 CC cyclase, MAP kinase activity, phosphorylation or inositol phosphate
 CC levels). The present sequence is that of the human alpha-2CAR polymorphic
 CC site comprising nucleotides 953-981.
 XX Sequence 29 BP; 2 A; 7 C; 19 G; 1 T; 0 other;
 SQ

Query Match 1.4%; Score 20.6; DB 23; Length 29;
 Best Local Similarity 85.2%; Pred. No. 3.4e+05;
 Matches 23; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 620 agcgcgcgcgcgcgcgcgcacgtgcc 646
 DB 29 AGCGCGCCCGCGCGCGCGCGCGCGCC 3
 ||||| ||| ||||| |||||

RESULT 9
 ID AA293432
 XX AA293432 standard; DNA; 20 BP.
 XX AA293432;
 XX 24-JUL-2000 (first entry)
 DE Forward primer for amplifying TRADD gene.

XX TRADD; TNF; tumour necrosis factor; NF-kappa-B; apoptosis;
KW programmed cell death; antisense; inhibition; treatment; therapy;
KW septic shock; inflammation; cancer; antiinflammatory; PCR;
KW polymerase chain reaction; primer; ss.
XX
OS Synthetic.
XX WO200012527-A1.
PN
XX
XX 09-MAR-2000.
PD
XX
XX 25-AUG-1999; 99WO-US19614.
PF
XX
XX 28-AUG-1998; 98US-0143212.
PR
XX
XX (ISIS-) ISIS PHARM INC.
PA
XX
XX Monia BP, Cowser LM;
PI
XX
XX WPI; 2000-237846/20.
DR
XX
XX New antisense compounds that limit the expression of human TRADD
PT protein, useful in the treatment and diagnosis of cancer, inflammation
PT and septic shock
PT
XX
XX Example 13; Page 49; 85pp; English.
PS
XX
XX The intracellular protein TRADD has been identified as a critical
CC link between tumour necrosis factor (TNF) receptor binding and
CC downstream activation of NF-kappa-B. Overexpression of native TRADD
CC activates NF-kappa-B in the absence of TNF and dominant negative
CC mutants of TRADD block TNF-induced NF-kappa-B activation. A second
CC effect of TNF in many cell types is the induction of apoptosis
CC (programmed cell death). TRADD overexpression has been shown to
CC mimic TNF induction of apoptosis as well. Data indicates that TRADD
CC and other downstream effector proteins are the rate limiting step
CC of TNF action and would therefore serve as the most efficient
CC targets for inhibition of TNF-induced events. Antisense
CC oligonucleotides capable of inhibiting TRADD function may therefore
CC be useful in a number of therapeutic, diagnostic and research
CC applications. Inhibiting expression of TRADD by contacting human
CC cells or tissues with the antisense compound may be used to treat a
CC disease or condition associated with TRADD expression, for example,
CC septic shock, inflammation, or cancer. TRADD antisense
CC oligonucleotides of varying inhibitory capabilities are listed in
CC GENESEN records AA293438-293517. Two primers (AA293432, AA293433) were
CC used to amplify the human TRADD gene.
XX
SQ Sequence 20 BP; 4 A; 3 C; 8 G; 5 T; 0 other;

Query Match 1.4%; Score 20; DB 21; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3e+05;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Caps 0;

Qy 440 acgaggagcgtgttgagt 459
|||||
Db 1 acgaggagcgtgttgagt 20

RESULT 10
AAZ20940/C
ID AAZ20940 standard; DNA: 28 BP.
XX
XX AAZ20940;
AC
XX
XX 02-DEC-1999 (first entry)
DT
XX
XX Forward primer to prepare ERK2 for bacterial expression.
DE
XX
XX mitogen activated protein; MAP kinase; apoptosis; cancer; inflammation;
KW intracellular signal transduction pathway; inhibitor; wildtype; ERK;

KW extracellular signal regulated kinase; primer; PCR; recombinant protein;
KW bacterial expression; ss.
XX
XX Synthetic.
OS Homo sapiens.
XX
XX WO942592-A1.
PN
XX
XX 26-AUG-1999.
PD
XX
XX 16-FEB-1999; 99WO-US03181.
PF
XX
XX 18-FEB-1998; 98US-0025580.
PR
XX
XX (VERT-) VERTEX PHARM INC.
PA
XX
XX Su MS, Fox E, Wilson KP, Germann UA;
PI
XX
XX WPI; 1999-540310/45.
DR
XX
XX Method of designing Ser/Thr or Tyr Kinase inhibitor useful for
PT treating, example breast cancer, restenosis, asthma or hypertension -
PT
XX
XX Example 1; Page 20; 71pp; English.
PS
XX
XX This is the forward primer for the amplification of the N-terminus of
CC the extracellular signal regulation kinase (ERK) 2. The primers
CC (AAZ20940 and AAZ20941) were used to introduce NdeI and BamHI sites into
CC the ERK2 fragment, simultaneously a (His) 6 metal affinity tag and a
CC thrombin cleavage site were also introduced into the N-terminus of the
CC translation product, before bacterial expression of the recombinant
CC ERK2.
CC MAP 1 kinases mediate intracellular signal transduction pathways
CC and so have a role in many diverse human diseases. For example,
CC kinases have been implicated in cell entry into apoptosis, cancer,
CC Alzheimer's disease, angiotensin II and hematopoietic cytokine receptor
CC signal transduction, oncoprotein signalling and mitosis, inflammation
CC and infection, etc.
CC Members of the MAP kinase family share sequence similarity and
CC conserved structural domains, and include the extracellular-signal
CC regulated kinases (ERKs), Jun N-terminal kinases (JNKs) and p38 kinases.
CC The invention relates to methods for designing inhibitors of
CC serine/threonine kinases, particularly MAP kinases, and tyrosine kinases
CC through the use of ATP-binding site mutants of these kinases. The
CC methods of this invention take advantage of the fact that the mutant
CC kinases are capable of binding inhibitory compounds of other kinases
CC with greater affinity than the corresponding wild-type kinase.
XX
SQ Sequence 28 BP; 4 A; 7 C; 13 G; 4 T; 0 other;

Query Match 1.4%; Score 19.8; DB 20; Length 28;
Best Local Similarity 91.3%; Pred. No. 4.8e+05;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Caps 0;

Qy 621 gccgcgcgcgcgcgcgcacactg 643
|||||
Db 27 GCCGCCGCCGCCGCCCATATG 5

RESULT 11
AAZ44349/C
ID AAZ44349 standard; DNA: 21 BP.
XX
XX AAZ44349;
AC
XX
XX 04-APR-2000 (first entry)
DT
XX
XX Protein kinase inhibiting primer #11.
DE
XX
XX Antimicrobial; cytostatic; immunosuppressive; protein kinase;
KW prophylactic; therapy; treatment; cancer; autoimmune disease;
KW pathogenic microorganism; primer; ss.

```
XX OS Unidentified.
XX XX
XX PN US5998596-A.
XX XX
XX PD 07-DEC-1999.
XX XX
XX PF 04-APR-1995; 95US-0416214.
XX XX
XX PR 04-APR-1995; 95US-0416214.
XX XX
XX PA (USSH ) US DEPT HEALTH & HUMAN SERVICES.
XX XX
XX PI Bergan R, Neckers L;
XX XX
XX DR WPI; 2000-104623/09.
XX XX
XX PT Oligonucleotides inhibiting protein kinase, useful for treating
XX XX diseases such as cancer and autoimmune disease -
XX XX
XX PS Example 3; Column 27-28; 26pp; English.
XX XX
XX CC This invention describes novel purified aptameric oligonucleotides
XX CC which have antimicrobial, cytostatic and immunosuppressive activity.
XX CC The oligonucleotides are useful for binding to and preventing or
XX CC inhibiting the biological function of a protein kinase or a target
XX CC molecule and for detecting the presence or absence of a target molecule
XX CC in biological samples. The oligonucleotides are also useful for
XX CC prophylactic and therapeutic treatment of diseases such as cancer,
XX CC autoimmune diseases and diseases caused by pathogenic microorganisms.
XX CC This sequence represents a primer used in the method of the invention.
XX XX
XX SQ Sequence 21 BP; 0 A; 7 C; 14 G; 0 U; 0 other;

Query Match 1.4%; Score 19.4; DB 21; Length 21;
Best Local Similarity 95.2%; Pred. No. 5.6e+05;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 621 gccgcgcgcgcgcgcgcacc 641
DB 21 gccgcgcgcgcgcgcgcacc 1

RESULT 12
AAZ24999/c
ID AAZ24999 standard; DNA; 24 BP.
XX XX
XX AC AAZ24999;
XX XX
XX DT 24-DEC-1999 (first entry)
XX XX
XX DE Sense probe to Fragile X syndrome gene.
XX XX
XX KW Trinucleotide repeat; myotonic-protein kinase; myotonic dystrophy; probe;
XX KW in situ hybridisation; detection; expansion; Fragile X syndrome; ss.
XX OS Synthetic.
XX OS Homo sapiens.
XX XX
XX PN US5962332-A.
XX XX
XX PD 05-OCT-1999.
XX XX
XX PF 11-DEC-1995; 95US-0570155.
XX XX
XX PR 17-MAR-1994; 94US-0214823.
XX PR 07-MAR-1995; 95US-0399499.
XX XX
XX PA (UYMA-) UNIV MASSACHUSETTS.
XX XX
XX PI Taneja KL, Singer RH;
XX XX

WPI; 1999-579615/49.
Detection of trinucleotide repeats -
Disclosure; Column 20; 18pp; English.
This oligonucleotides is targeted to the CGG trinucleotide repeats found
in the FMR1 gene. Excessive numbers of the trinucleotide repeats in the
FMR1 gene leads to the disease Fragile X syndrome. This sequence is used
as a sense oligonucleotide control probe for the hybridisation reaction.
The invention relates to a method for the detection of trinucleotide
repeat expansion, e.g. in the FMR1 gene or Mt-PK gene (leading to
myotonic dystrophy) by in situ hybridization.
Sequence 24 BP; 0 A; 6 C; 14 G; 2 T; 2 other;

Query Match 1.4%; Score 19.4; DB 20; Length 24;
Best Local Similarity 90.9%; Pred. No. 5.6e+05;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 620 agccgcgcgcgcgcgcacc 641
DB 24 ANCCGCCGCCGCCGCCGCC 3

RESULT 13
AAQ55856/c
ID AAQ55856 standard; DNA; 25 BP.
XX XX
XX AC AAQ55856;
XX XX
XX DT 25-JUL-1994 (first entry)
XX XX
XX DE Fragile X probe.
XX XX
XX KW FC; foetal cells; marker; probe; hybridise; denature; dye; label;
XX KW fluorescent; kit; detection; haemoglobin; rhesus; gamma globulin;
XX KW NR; nitrogen reductase; ss.
XX XX
XX OS Homo sapiens.
XX XX
XX PN WO9402646-A.
XX XX
XX PD 03-FEB-1994.
XX XX
XX PF 19-JUL-1993; 93WO-US06828.
XX XX
XX PR 17-JUL-1992; 92US-0915965.
XX XX
XX PA (RERE-) RES DEV FOUND.
XX XX
XX PI Asgari M, Blick M, Bresser J, Cabbage ML, Ju S;
XX PI Prashad N;
XX XX
XX DR WPI; 1994-048903/06.
XX XX
XX PT Identifying foetal cells, conc. from maternal blood, using
XX PT specific marker - e.g. surface antigen, before in situ
XX PT hybridisation of target nucleic acid to detect viral infection,
XX PT genetic abnormality, etc.
XX XX
XX PS Disclosure; Page 73; 109pp; English.
XX XX
XX CC Probes (AAQ55857-873) detect regions of 3 fragments of the HUMGLBN
XX CC gene (AAQ64058). Bases 1-91 correspond to bases 2179-2269 of HUMGLBN,
XX CC bases 92-314 are from 2393-2615 of HUMGLBN and bases 315-443 are
XX CC from 3502-3630 of HUMGLBN.
XX CC The probes (AAQ55854-55) were used as control, positive and negative
XX CC genetic testing probes. Probe (AAQ55856) was used to detect the fragile
XX CC X condition (Example 14)
XX XX
XX SQ Sequence 25 BP; 0 A; 9 C; 16 G; 0 U; 0 other;
```

Query Match 1.4%; Score 19.4; DB 15; Length 25;
 Best Local Similarity 95.2%; Pred. No. 5.6e+05;
 Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 621 gccgcgcgcgcgcgcgcacc 641
 Db 25 GCCGCCGCCGCCGCCGCCGCC 5

RESULT 14
 AAQ85271/c
 ID AAQ85271 standard; DNA; 25 BP.

XX AC AAQ85271;
 XX AC
 DT 24-AUG-1995 (first entry)
 XX AC

DE Probe for Fragile X condition.

XX Prenatal diagnosis; fragile X; probe; ss.

XX Synthetic.

XX WO9503431-A.

XX 02-FEB-1995.

XX 19-JUL-1994; 94WO-US08342.

XX 19-JUL-1993; 93US-0094710.

XX (APRO-) APROGENEX INC.

XX Asgari M, Blick M, Bresser J, Cubbage ML, Poindexter BJ;

XX Prashad, Ryusaki T, Weber WD;

XX WPI; 1995-075255/10.

XX Identifying foetal cells in samples contg. maternal cells - used
 PT for monitoring foetus status, identifying sex or detecting
 PT genetic abnormalities or viral infection

XX Example; Page 75; 115pp; English.

XX In the example, Fragile X Chromosome is identified in amniocytes
 CC and in peripheral blood mononuclear cells. The 5' aminoethyl oligos
 CC is coupled to the fluorescent dye fluorescein. When an
 CC amplification of the CGG DNA fragment (of the X chromosome in
 CC Xq27.3) is present, there is an increase in the intensity of the
 CC signal.

XX Sequence 25 BP; 0 A; 9 C; 16 G; 0 U; 0 other;

Query Match 1.4%; Score 19.4; DB 16; Length 25;
 Best Local Similarity 95.2%; Pred. No. 5.6e+05;
 Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 621 gccgcgcgcgcgcgcgcacc 641
 Db 25 GCCGCCGCCGCCGCCGCCGCC 5

RESULT 15
 AAX05267/c
 ID AAX05267 standard; DNA; 25 BP.

XX AAX05267;

XX 14-APR-1999 (first entry)

XX

DE Fragile X chromosome detecting probe.

XX Genetic testing; foetal cell; maternal; blood; pregnant; hybridisation;
 KW detection; HIV, hepatitis virus; herpes virus; chromosomal abnormality;
 KW probe; ss.

XX Synthetic.
 OS Homo sapiens.

XX US5858649-A.

XX 12-JAN-1999.

XX 31-DEC-1996; 96US-0775609.

XX 17-JUL-1992; 92US-0915765.

XX 19-JUL-1993; 93US-0094710.

XX 19-JUL-1994; 94WO-US08342.

XX 17-JAN-1995; 95US-0374144.

XX 31-DEC-1996; 96US-0775609.

XX (APRO-) APROGENEX INC.

XX Asgari M, Blick M, Bresser J, Cubbage ML, Prashad N;

XX WPI; 1999-152096/13.

XX Method for distinguishing foetal cells from adult cells in blood -
 PT based on amplification and detection of mRNA selectively expressed
 PT in foetal cells

XX Example 4, 14; Column 49; 49pp; English.

XX The invention relates to a method of enriching foetal cells from
 CC maternal blood and for identifying such foetal cells. Foetal cells can
 CC be distinguished from adult cells in a blood specimen by (a) treating a
 CC blood specimen from a pregnant female to yield a mixture of cells
 CC comprising foetal cells and adult cells; (b) amplifying one or more mRNAs
 CC within the cells, the mRNAs being selectively expressed in target foetal
 CC cells to be distinguished but not expressed in adult blood cells; (c)
 CC performing in situ hybridisation on the cells under hybridising
 CC conditions suitable to maintain cell membranes in a substantially intact
 CC state and with a hybridisation medium comprising a detectably labelled
 CC probe complementary to the amplified mRNA that is selectively expressed
 CC in the target foetal cells but not expressed in adult blood cells; (d)
 CC removing the hybridisation medium and unhybridised probe from the mixture
 CC of cells to yield hybridised cells, and (e) detecting the labelled probe
 CC remaining in the hybridised cells; whereby cells in which the labelled
 CC probe is detected are identified as the target foetal cells; A second
 CC method for determining the presence of a target nucleotide sequence in
 CC individual foetal cells present in a cellular specimen is also provided.
 CC The methods (especially the second) is useful for detecting HIV,
 CC hepatitis viruses or herpes viruses in foetal cells, or for detecting
 CC chromosomal abnormalities in foetal cells. The present sequence
 CC represents a probe used for the detection of the fragile X chromosome in
 CC amniocytes and in peripheral blood mononuclear cells.

XX Sequence 25 BP; 0 A; 9 C; 16 G; 0 U; 0 other;

Query Match 1.4%; Score 19.4; DB 20; Length 25;
 Best Local Similarity 95.2%; Pred. No. 5.6e+05;
 Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 621 gccgcgcgcgcgcgcgcacc 641

Db 25 GCCGCCGCCGCCGCCGCCGCC 5

Search completed: August 18, 2002, 19:12:55
 Job time: 4140 sec

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OM nucleic - nucleic search, using sw model

Run on: August 18, 2002, 17:15:00 ; Search time 1938.53 Seconds
(without alignments)
15490.903 Million cell updates/sec

Title: US-09-763-748-1

Perfect score: 1435

Sequence: 1 ctggcggcggtgggaaccca.....gataataaagtataacacgg 1435

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1797656 seqs, 10463268293 residues

Total number of hits satisfying chosen parameters: 524256

Minimum DB seq length: 0

Maximum DB seq length: 30

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

GenEmbl.*

1: gb_ba.*

2: gb_htg.*

3: gb_in.*

4: gb_om.*

5: gb_ov.*

6: gb_pat.*

7: gb_ph.*

8: gb_pl.*

9: gb_pr.*

10: gb_ro.*

11: gb_sts.*

12: gb_sy.*

13: gb_un.*

14: gb_vi.*

15: em_ba.*

16: em_fun.*

17: em_hum.*

18: em_in.*

19: em_mu.*

20: em_om.*

21: em_or.*

22: em_ov.*

23: em_pat.*

24: em_ph.*

25: em_pl.*

26: em_ro.*

27: em_sts.*

28: em_un.*

29: em_vi.*

30: em_htg_hum.*

31: em_htg_inv.*

32: em_htg_other.*

33: em_htgo_inv.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
-----	-----	-----	-----	-----	-----

c 74	18	1.3	18	6	AR098792	Sequence	AR098792	Sequence	c 147	16.4	1.1	29	6	AX166363	Sequence
c 75	18	1.3	18	6	AR098793	Sequence	AR098793	Sequence	c 148	16.4	1.1	30	6	AX019149	Sequence
c 76	18	1.3	18	6	AR098794	Sequence	AR098794	Sequence	c 149	16.4	1.1	30	6	AX026058	Sequence
c 77	18	1.3	18	6	AR098795	Sequence	AR098795	Sequence	c 150	16.4	1.1	30	6	AX035480	Sequence
c 78	18	1.3	18	6	AR098796	Sequence	AR098796	Sequence	c 151	16.4	1.1	30	6	AX056853	Sequence
c 79	18	1.3	18	6	AR098797	Sequence	AR098797	Sequence	c 152	16.4	1.1	30	6	AX127355	Sequence
c 80	18	1.3	18	6	AR098798	Sequence	AR098798	Sequence	c 153	16.2	1.1	22	6	A87888	Sequence 36
c 81	18	1.3	18	6	AR098799	Sequence	AR098799	Sequence	c 154	16.2	1.1	22	6	A89855	Sequence 36
c 82	18	1.3	18	6	AR098800	Sequence	AR098800	Sequence	c 155	16.2	1.1	23	6	A22072	A22072 oligonucleo
c 83	18	1.3	18	6	AR098801	Sequence	AR098801	Sequence	c 156	16.2	1.1	23	6	A77134	A77134 Sequence 2
c 84	18	1.3	18	6	AR098802	Sequence	AR098802	Sequence	c 157	16.2	1.1	23	6	AR029100	Sequence
c 85	18	1.3	18	6	AR098803	Sequence	AR098803	Sequence	c 158	16.2	1.1	23	6	AX350161	Sequence
c 86	18	1.3	18	6	AR098804	Sequence	AR098804	Sequence	c 159	16.2	1.1	23	6	E33132	E33132 Humanized a
c 87	18	1.3	18	6	AR098805	Sequence	AR098805	Sequence	c 160	16.2	1.1	23	6	I12752	I12752 Sequence 50
c 88	18	1.3	18	6	AR098806	Sequence	AR098806	Sequence	c 161	16.2	1.1	24	6	AR035571	AR035571 Sequence
c 89	18	1.3	18	6	AR098807	Sequence	AR098807	Sequence	c 162	16.2	1.1	29	6	AX040126	AX040126 Sequence
c 90	18	1.3	18	6	AR098808	Sequence	AR098808	Sequence	c 163	16.2	1.1	30	6	AR072121	AR072121 Sequence
c 91	18	1.3	18	6	AR098809	Sequence	AR098809	Sequence	c 164	16.2	1.1	30	6	AR161859	AR161859 Sequence
c 92	18	1.3	18	6	AR098810	Sequence	AR098810	Sequence	c 165	16.2	1.1	30	6	AX140452	AX140452 Sequence
c 93	18	1.3	18	6	AR098811	Sequence	AR098811	Sequence	c 166	16.2	1.1	30	6	I40012	I40012 Sequence 65
c 94	18	1.3	18	6	AR098812	Sequence	AR098812	Sequence	c 167	16	1.1	16	6	A89435	A89435 Sequence 15
c 95	18	1.3	18	6	AR098813	Sequence	AR098813	Sequence	c 168	16	1.1	16	6	A89436	A89436 Sequence 15
c 96	18	1.3	18	6	AR098814	Sequence	AR098814	Sequence	c 169	16	1.1	16	6	A89439	A89439 Sequence 15
c 97	18	1.3	18	6	AR098815	Sequence	AR098815	Sequence	c 170	16	1.1	16	6	A89442	A89442 Sequence 15
c 98	18	1.3	18	6	AR098816	Sequence	AR098816	Sequence	c 171	16	1.1	16	6	A89446	A89446 Sequence 15
c 99	18	1.3	18	6	AR098817	Sequence	AR098817	Sequence	c 172	16	1.1	17	6	AR164081	AR164081 Sequence
c 100	18	1.3	18	6	AR098818	Sequence	AR098818	Sequence	c 173	16	1.1	17	6	AR164080	AR164080 Sequence
c 101	18	1.3	18	6	AR098819	Sequence	AR098819	Sequence	c 174	16	1.1	24	6	AR010038	AR010038 Sequence
c 102	18	1.3	18	6	AR098820	Sequence	AR098820	Sequence	c 175	16	1.1	24	6	AR034773	AR034773 Sequence
c 103	18	1.3	18	6	AR098821	Sequence	AR098821	Sequence	c 176	16	1.1	24	6	AX023424	AX023424 Sequence
c 104	18	1.3	18	6	AR098822	Sequence	AR098822	Sequence	c 177	16	1.1	25	6	I21150	I21150 Sequence 14
c 105	18	1.3	18	6	AR098823	Sequence	AR098823	Sequence	c 178	16	1.1	25	6	I58023	I58023 Sequence 16
c 106	18	1.3	18	6	AR098824	Sequence	AR098824	Sequence	c 179	16	1.1	26	6	AR004587	AR004587 Sequence
c 107	18	1.3	18	6	AR098825	Sequence	AR098825	Sequence	c 180	16	1.1	26	6	AX046085	AX046085 Sequence
c 108	18	1.3	18	6	AR098826	Sequence	AR098826	Sequence	c 181	16	1.1	26	6	AX247514	AX247514 Sequence
c 109	18	1.3	18	6	AR098827	Sequence	AR098827	Sequence	c 182	16	1.1	26	6	AX285283	AX285283 Sequence
c 110	18	1.3	18	6	AR098828	Sequence	AR098828	Sequence	c 183	16	1.1	27	6	A02315	A02315 Oligonucleo
c 111	18	1.3	18	6	AR098829	Sequence	AR098829	Sequence	c 184	16	1.1	27	6	A61795	A61795 Sequence 18
c 112	18	1.3	18	6	AR098830	Sequence	AR098830	Sequence	c 185	16	1.1	27	6	A94883	A94883 Sequence 7
c 113	18	1.3	18	6	AR098831	Sequence	AR098831	Sequence	c 186	16	1.1	27	6	AR161685	AR161685 Sequence
c 114	18	1.3	18	6	AR098832	Sequence	AR098832	Sequence	c 187	16	1.1	27	6	E36505	E36505 Varicella-z
c 115	18	1.3	30	6	A44949	Sequence 5	A44949	Sequence 5	c 188	16	1.1	28	6	BD004283	BD004283 Apo E hum
c 116	18	1.3	30	6	I64440	Sequence 5	I64440	Sequence 5	c 189	16	1.1	29	6	A86661	A86661 Sequence 7
c 117	17.4	1.2	24	6	AR159556	Sequence	AR159556	Sequence	c 190	16	1.1	29	6	BD004282	BD004282 Apo E hum
c 118	17.2	1.2	22	6	A88669	Sequence 81	A88669	Sequence 81	c 191	16	1.1	30	6	AX003461	AX003461 Sequence
c 119	17.2	1.2	22	6	A90636	Sequence 81	A90636	Sequence 81	c 192	16	1.1	30	6	BD011248	BD011248 Human tel
c 120	17.2	1.2	26	6	AX282812	Sequence	AX282812	Sequence	c 193	16	1.1	30	6	E36997	E36997 Human telom
c 121	17	1.2	26	6	A67594	Sequence 14	A67594	Sequence 14	c 194	15.8	1.1	20	6	AR086254	AR086254 Sequence
c 122	17	1.2	20	6	AR089732	Sequence	AR089732	Sequence	c 195	15.8	1.1	20	6	AR137400	AR137400 Sequence
c 123	17	1.2	20	6	AR163839	Sequence	AR163839	Sequence	c 196	15.8	1.1	20	6	AR176820	AR176820 Sequence
c 124	17	1.2	28	6	E44025	Novel human	E44025	Novel human	c 197	15.8	1.1	25	6	A47526	A47526 Sequence 21
c 125	17	1.2	30	6	A84394	Sequence 9	A84394	Sequence 9	c 198	15.8	1.1	25	6	AR097937	AR097937 Sequence
c 126	16.8	1.2	23	6	I30059	Sequence 11	I30059	Sequence 11	c 199	15.8	1.1	27	6	AR031339	AR031339 Sequence
c 127	16.8	1.2	26	6	I72459	Sequence 43	I72459	Sequence 43	c 200	15.8	1.1	27	6	AR110673	AR110673 Sequence
c 128	16.8	1.2	28	6	AR091083	Sequence	AR091083	Sequence	c 201	15.8	1.1	27	6	AX099279	AX099279 Sequence
c 129	16.8	1.2	28	6	AX299899	Sequence	AX299899	Sequence	c 202	15.8	1.1	27	6	AX236840	AX236840 Sequence
c 130	16.8	1.2	30	6	AR038345	Sequence	AR038345	Sequence	c 203	15.8	1.1	27	6	AX270316	AX270316 Homo sapi
c 131	16.6	1.2	24	6	AR016328	Sequence	AR016328	Sequence	c 204	15.8	1.1	27	10	MMW1175	MMW1175
c 132	16.6	1.2	24	6	I12751	Sequence 49	I12751	Sequence 49	c 205	15.8	1.1	28	6	AR026726	AR026726 Sequence
c 133	16.6	1.2	24	6	I59952	Sequence 7	I59952	Sequence 7	c 206	15.8	1.1	28	6	AR049152	AR049152 Sequence
c 134	16.6	1.2	24	6	I86033	Sequence 93	I86033	Sequence 93	c 207	15.8	1.1	28	6	AR065410	AR065410 Sequence
c 135	16.6	1.2	29	6	I74753	Sequence 16	I74753	Sequence 16	c 208	15.8	1.1	29	6	AX356210	AX356210 Sequence
c 136	16.6	1.2	30	6	A49335	Sequence	A49335	Sequence	c 209	15.8	1.1	29	6	A16462	A16462 Oligonucleo
c 137	16.4	1.1	20	6	AR130110	Sequence	AR130110	Sequence	c 210	15.8	1.1	29	6	A23827	A23827 Artificial
c 138	16.4	1.1	21	6	AX153903	Sequence	AX153903	Sequence	c 211	15.8	1.1	29	6	BD007256	BD007256 Novel flt
c 139	16.4	1.1	27	6	AR039194	Sequence	AR039194	Sequence	c 212	15.8	1.1	29	6	I36248	I36248 Sequence 1
c 140	16.4	1.1	27	6	E31954	Process for	E31954	Process for	c 213	15.8	1.1	29	6	I73763	I73763 Sequence 37
c 141	16.4	1.1	28	6	AR022564	Sequence	AR022564	Sequence	c 214	15.8	1.1	29	6	I92486	I92486 Sequence 1
c 142	16.4	1.1	28	6	AR037579	Sequence	AR037579	Sequence	c 215	15.8	1.1	30	6	A12174	A12174 Nucleotide
c 143	16.4	1.1	28	6	AR178037	Sequence	AR178037	Sequence	c 216	15.8	1.1	30	6	A87658	A87658 Sequence 9
c 144	16.4	1.1	28	6	AX183666	Sequence	AX183666	Sequence	c 217	15.8	1.1	30	6	AR024126	AR024126 Sequence
c 145	16.4	1.1	29	6	AR135624	Sequence	AR135624	Sequence	c 218	15.8	1.1	30	6	AR035226	AR035226 Sequence
c 146	16.4	1.1	29	6	AR135635	Sequence	AR135635	Sequence	c 219	15.8	1.1	30	6	AR083501	AR083501 Sequence

c 220	15.8	1.1	30	6	AX002613	AX002613 Sequence	293	15.4	1.1	30	6	Al7453	Al7453 oligonucleo
c 221	15.8	1.1	30	6	AX003657	AX003657 Sequence	294	15.4	1.1	30	6	A46153	A46153 Sequence 48
c 222	15.8	1.1	30	6	BD001230	BD001230 Method an	c 295	15.4	1.1	30	6	A79795	A79795 Sequence 3
c 223	15.8	1.1	30	6	BD001659	BD001659 Method an	296	15.4	1.1	30	6	AR014428	AR014428 Sequence
c 224	15.6	1.1	22	6	AR122452	AR122452 Sequence	297	15.4	1.1	30	6	AR023777	AR023777 Sequence
c 225	15.6	1.1	22	6	AX201795	AX201795 Sequence	298	15.4	1.1	30	6	AR061343	AR061343 Sequence
c 226	15.6	1.1	22	6	AX201805	AX201805 Sequence	299	15.4	1.1	30	6	AR108242	AR108242 Sequence
c 227	15.6	1.1	22	6	AX201813	AX201813 Sequence	300	15.4	1.1	30	6	AR110008	AR110008 Sequence
c 228	15.6	1.1	22	6	E64578	E64578 Method for	301	15.4	1.1	30	6	BD008872	BD008872 High leve
c 229	15.6	1.1	22	6	I33156	I33156 Sequence 10	302	15.4	1.1	30	6	II1871	II1871 Sequence 37
c 230	15.6	1.1	23	6	AR078417	AR078417 Sequence	c 303	15.4	1.1	30	6	II4131	II4131 Sequence 5
c 231	15.6	1.1	24	6	A31620	A31620 Synthetic p	304	15.4	1.1	30	6	II6199	II6199 Sequence 25
c 232	15.6	1.1	24	6	E01383	E01383 DNA encodin	305	15.4	1.1	30	6	I66685	I66685 Sequence 25
c 233	15.6	1.1	25	6	AX207016	AX207016 Sequence	306	15.4	1.1	30	6	I84779	I84779 Sequence 25
c 234	15.6	1.1	25	6	AX236598	AX236598 Sequence	307	15.4	1.1	30	9	S66556	S66556 COL1A1-coll
c 235	15.6	1.1	25	6	AX236604	AX236604 Sequence	c 308	15.2	1.1	20	6	AR037329	AR037329 Sequence
c 236	15.6	1.1	25	6	AX236619	AX236619 Sequence	c 309	15.2	1.1	20	6	AR040612	AR040612 Sequence
c 237	15.6	1.1	26	6	A99052	A99052 Sequence 60	310	15.2	1.1	20	6	AR163990	AR163990 Sequence
c 238	15.6	1.1	26	6	AX092599	AX092599 Sequence	311	15.2	1.1	20	6	AR164402	AR164402 Sequence
c 239	15.6	1.1	27	6	AR052912	AR052912 Sequence	c 312	15.2	1.1	20	6	E16118	E16118 PCR primer
c 240	15.6	1.1	27	6	AR054475	AR054475 Sequence	313	15.2	1.1	20	6	E16119	E16119 PCR primer
c 241	15.6	1.1	27	6	AR054477	AR054477 Sequence	c 314	15.2	1.1	20	6	II19623	II19623 Sequence 4
c 242	15.6	1.1	27	6	AR116911	AR116911 Sequence	c 315	15.2	1.1	20	11	DOGHOX7B	L77371 Canis fami
c 243	15.6	1.1	27	6	AR135729	AR135729 Sequence	c 316	15.2	1.1	21	6	AR043094	AR043094 Sequence
c 244	15.6	1.1	28	6	A36955	A36955 Sequence 6	c 317	15.2	1.1	21	6	AR112354	AR112354 Sequence
c 245	15.6	1.1	28	6	A39163	A39163 Sequence 11	c 318	15.2	1.1	21	6	AR163669	AR163669 Sequence
c 246	15.6	1.1	28	6	A39222	A39222 Sequence 6	c 319	15.2	1.1	21	6	AX096563	AX096563 Sequence
c 247	15.6	1.1	30	6	A76887	A76887 Sequence 19	c 320	15.2	1.1	21	6	I07723	I07723 Sequence 28
c 248	15.6	1.1	30	6	AX058671	AX058671 Sequence	c 321	15.2	1.1	23	6	AR090853	AR090853 Sequence
c 249	15.6	1.1	30	6	AX207307	AX207307 Sequence	c 322	15.2	1.1	24	6	AX289979	AX289979 Sequence
c 250	15.6	1.1	30	6	AX235827	AX235827 Sequence	323	15.2	1.1	24	6	II6928	II6928 Sequence 3
c 251	15.6	1.1	30	6	I09682	I09682 Sequence 7	324	15.2	1.1	25	6	A63591	A63591 Sequence 5
c 252	15.6	1.1	30	6	II1954	II1954 Sequence 17	325	15.2	1.1	25	6	AX283527	AX283527 Sequence
c 253	15.6	1.1	30	6	I28590	I28590 Sequence 43	c 326	15.2	1.1	25	6	E34115	E34116 Protein par
c 254	15.6	1.1	30	6	I58752	I58752 Sequence 43	c 327	15.2	1.1	26	6	BD000384	BD000384 Method fo
c 255	15.4	1.1	17	6	A88670	A88670 Sequence 81	328	15.2	1.1	27	6	AR031634	AR031634 Sequence
c 256	15.4	1.1	17	6	A90637	A90637 Sequence 81	329	15.2	1.1	27	6	AR079143	AR079143 Sequence
c 257	15.4	1.1	18	6	A04794	A04794 Oligonucleo	c 330	15.2	1.1	27	6	AX054728	AX054728 Sequence
c 258	15.4	1.1	18	6	A09418	A09418 Oligonucleo	c 331	15.2	1.1	27	6	AX154952	AX154952 Sequence
c 259	15.4	1.1	18	6	A09458	A09458 Synthetic n	c 332	15.2	1.1	27	6	AX306746	AX306746 Sequence
c 260	15.4	1.1	18	6	A35123	A35123 Synthetic I	c 333	15.2	1.1	27	6	AX306747	AX306747 Sequence
c 261	15.4	1.1	18	6	A67588	A67588 Sequence 8	334	15.2	1.1	28	6	AR120087	AR120087 Sequence
c 262	15.4	1.1	18	6	AR085574	AR085574 Sequence	c 335	15.2	1.1	28	6	AR139142	AR139142 Sequence
c 263	15.4	1.1	18	6	AR089726	AR089726 Sequence	c 336	15.2	1.1	28	6	AX008031	AX008031 Sequence
c 264	15.4	1.1	19	6	AX131573	AX131573 Sequence	c 337	15.2	1.1	28	6	AX008200	AX008200 Sequence
c 265	15.4	1.1	20	6	AR052628	AR052628 Sequence	338	15.2	1.1	28	6	E07804	E07804 Adapter. 9/
c 266	15.4	1.1	21	6	AX095334	AX095334 Sequence	c 339	15.2	1.1	28	6	I71343	I71343 Sequence 15
c 267	15.4	1.1	22	6	AR052909	AR052909 Sequence	c 340	15.2	1.1	29	6	AR012281	AR012281 Sequence
c 268	15.4	1.1	22	6	AR054272	AR054272 Sequence	c 341	15.2	1.1	29	6	AR016276	AR016276 Sequence
c 269	15.4	1.1	22	6	AR054474	AR054474 Sequence	342	15.2	1.1	29	6	AR138084	AR138084 Sequence
c 270	15.4	1.1	24	6	AR084538	AR084538 Sequence	343	15.2	1.1	29	6	AR172341	AR172341 Sequence
c 271	15.4	1.1	24	6	BD010533	BD010533 A novel h	c 344	15.2	1.1	29	6	AX183868	AX183868 Sequence
c 272	15.4	1.1	25	6	A30580	A30580 Synthetic m	c 345	15.2	1.1	29	6	E27930	E27930 DNA encodin
c 273	15.4	1.1	25	6	AR054039	AR054039 Sequence	c 346	15.2	1.1	29	6	II4979	II4979 Sequence 65
c 274	15.4	1.1	25	6	AR088202	AR088202 Sequence	c 347	15.2	1.1	29	6	I28483	I28483 Sequence 8
c 275	15.4	1.1	26	6	AR024090	AR024090 Sequence	c 348	15.2	1.1	29	6	I73699	I73699 Sequence 65
c 276	15.4	1.1	26	6	AX203623	AX203623 Sequence	c 349	15.2	1.1	30	6	A23496	A23496 Oligonucleo
c 277	15.4	1.1	26	6	BD001194	BD001194 Method an	350	15.2	1.1	30	6	A38420	A38420 Sequence 11
c 278	15.4	1.1	26	6	BD001623	BD001623 Method an	c 351	15.2	1.1	30	6	A76887	A76887 Sequence 19
c 279	15.4	1.1	26	6	E13969	E13969 PCR primer.	352	15.2	1.1	30	6	A97986	A97986 Sequence 16
c 280	15.4	1.1	27	6	AR040180	AR040180 Sequence	353	15.2	1.1	30	6	AR146996	AR146996 Sequence
c 281	15.4	1.1	27	6	AX012394	AX012394 Sequence	354	15.2	1.1	30	6	AX017173	AX017173 Sequence
c 282	15.4	1.1	27	6	AX052686	AX052686 Sequence	355	15.2	1.1	30	6	AX0316135	AX0316135 Sequence
c 283	15.4	1.1	27	6	AX193533	AX193533 Sequence	c 356	15.2	1.1	30	6	E08862	E08862 Probe. 9/19
c 284	15.4	1.1	27	6	AX281251	AX281251 Sequence	c 357	15.2	1.1	30	6	E50631	E50631 Betacelluli
c 285	15.4	1.1	27	6	AX317463	AX317463 Sequence	c 358	15	1.0	15	6	A89438	A89438 Sequence 15
c 286	15.4	1.1	27	6	E60000	E60000 Highly acti	c 359	15	1.0	15	6	A89441	A89441 Sequence 15
c 287	15.4	1.1	27	6	I23391	I23391 Sequence 9	c 360	15	1.0	15	6	A89447	A89447 Sequence 15
c 288	15.4	1.1	29	6	AX203783	AX203783 Sequence	c 361	15	1.0	15	6	AR084532	AR084532 Sequence
c 289	15.4	1.1	29	6	AX288078	AX288078 Sequence	c 362	15	1.0	19	6	AR172749	AR172749 Sequence
c 290	15.4	1.1	29	6	II6021	II6021 Sequence 24	c 363	15	1.0	19	6	AR172750	AR172750 Sequence
c 291	15.4	1.1	30	6	Al1500	Al1500 Nucleotide	364	15	1.0	21	6	AX096129	AX096129 Sequence
c 292	15.4	1.1	30	6	Al7053	Al7053 oligonucleo	365	15	1.0	21	6	AX211726	AX211726 Sequence

c 366	15	1.0	23	6	A50973	A50973 Sequence 14	c 439	15	1.0	30	6	I28814	I28814 Sequence 42
c 367	15	1.0	23	6	A62488	Sequence 3	c 440	15	1.0	30	6	I61251	I61251 Sequence 58
c 368	15	1.0	23	6	AR091402	Sequence	c 441	15	1.0	30	6	I61266	I61266 Sequence 73
c 369	15	1.0	23	6	AR137774	Sequence	c 442	15	1.0	30	6	I85668	I85668 Sequence 17
c 370	15	1.0	23	6	AX353421	Sequence	c 443	15	1.0	30	6	I86662	I86662 Sequence 2
c 371	15	1.0	23	23	E10826	E10826 FIRC label1	c 444	14.8	1.0	18	6	AR098952	AR098952 Sequence
c 372	15	1.0	24	6	A61814	A61814 Sequence 37	c 445	14.8	1.0	18	6	AX009037	AX009037 Sequence
c 373	15	1.0	24	6	AX088698	AX088698 Sequence	c 446	14.8	1.0	18	6	I79792	I79792 Sequence 88
c 374	15	1.0	24	6	AX234362	AX234362 Sequence	c 447	14.8	1.0	19	6	AX259832	AX259832 Sequence
c 375	15	1.0	24	6	AX289825	AX289825 Sequence	c 448	14.8	1.0	19	6	AX259833	AX259833 Sequence
c 376	15	1.0	24	6	AX300811	AX300811 Sequence	c 449	14.8	1.0	20	6	A97469	A97469 Sequence 25
c 377	15	1.0	24	6	I68927	I68927 Sequence 19	c 450	14.8	1.0	20	6	AR036620	AR036620 Sequence
c 378	15	1.0	25	6	A24349	A24349 oligonucleo	c 451	14.8	1.0	20	6	AR079640	AR079640 Sequence
c 379	15	1.0	25	6	A24350	A24350 oligonucleo	c 452	14.8	1.0	20	6	AR102403	AR102403 Sequence
c 380	15	1.0	25	6	AR037810	AR037810 Sequence	c 453	14.8	1.0	20	6	AR172896	AR172896 Sequence
c 381	15	1.0	25	6	AR071197	AR071197 Sequence	c 454	14.8	1.0	20	6	AX009042	AX009042 Sequence
c 382	15	1.0	25	6	AR071200	AR071200 Sequence	c 455	14.8	1.0	20	6	AX304783	AX304783 Sequence
c 383	15	1.0	25	6	AX042439	AX042439 Sequence	c 456	14.8	1.0	20	6	AX317899	AX317899 Sequence
c 384	15	1.0	25	6	AX042441	AX042441 Sequence	c 457	14.8	1.0	20	6	BD006253	BD006253 Antisense
c 385	15	1.0	25	6	AX042470	AX042470 Sequence	c 458	14.8	1.0	20	6	E30816	E30816 Novel prote
c 386	15	1.0	25	6	I32643	I32643 Sequence 28	c 459	14.8	1.0	20	6	I19371	I19371 Sequence 3
c 387	15	1.0	25	6	I68678	I68678 Sequence 43	c 460	14.8	1.0	21	6	A23914	A23914 TGF-beta hy
c 388	15	1.0	26	6	AX279018	AX279018 Sequence	c 461	14.8	1.0	21	6	A23915	A23915 TGF-beta hy
c 389	15	1.0	27	6	AR044492	AR044492 Sequence	c 462	14.8	1.0	22	6	AR044737	AR044737 Sequence
c 390	15	1.0	27	6	AR048856	AR048856 Sequence	c 463	14.8	1.0	22	6	AR052384	AR052384 Sequence
c 391	15	1.0	27	6	AR144855	AR144855 Sequence	c 464	14.8	1.0	22	6	AR055182	AR055182 Sequence
c 392	15	1.0	27	6	AX191944	AX191944 Sequence	c 465	14.8	1.0	22	6	AR158053	AR158053 Sequence
c 393	15	1.0	27	6	E08372	E08372 Primer for	c 466	14.8	1.0	22	6	I92533	I92533 Sequence 59
c 394	15	1.0	27	6	I32411	I32411 Sequence 6	c 467	14.8	1.0	24	6	A63162	A63162 Sequence 5
c 395	15	1.0	27	6	I86895	I86895 Sequence 1	c 468	14.8	1.0	24	6	AR118862	AR118862 Sequence
c 396	15	1.0	27	10	MUSTCGXBF	M55950 Mouse T-cel	c 469	14.8	1.0	24	6	AX055413	AX055413 Sequence
c 397	15	1.0	27	10	MUSTCGXBL	M55956 Mouse T-cel	c 470	14.8	1.0	24	6	AX074392	AX074392 Sequence
c 398	15	1.0	28	6	AR024077	AR024077 Sequence	c 471	14.8	1.0	24	6	AX077060	AX077060 Sequence
c 399	15	1.0	28	6	AR176566	AR176566 Sequence	c 472	14.8	1.0	24	6	AX116242	AX116242 Sequence
c 400	15	1.0	28	6	AX350015	AX350015 Sequence	c 473	14.8	1.0	24	6	AX150816	AX150816 Sequence
c 401	15	1.0	28	6	BD001181	BD001181 Method an	c 474	14.8	1.0	25	6	AX189393	AX189393 Sequence
c 402	15	1.0	28	6	BD001610	BD001610 Method an	c 475	14.8	1.0	26	6	A27957	A27957 Human TCR V
c 403	15	1.0	29	6	AR038878	AR038878 Sequence	c 476	14.8	1.0	26	6	A31628	A31628 Synthetic h
c 404	15	1.0	29	6	AR176576	AR176576 Sequence	c 477	14.8	1.0	26	6	AR078421	AR078421 Sequence
c 405	15	1.0	29	6	AX268240	AX268240 Sequence	c 478	14.8	1.0	26	6	AX005876	AX005876 Sequence
c 406	15	1.0	29	6	AX350126	AX350126 Sequence	c 479	14.8	1.0	26	6	AX033455	AX033455 Sequence
c 407	15	1.0	30	6	A21016	A21016 oligonucleo	c 480	14.8	1.0	26	6	AX224712	AX224712 Sequence
c 408	15	1.0	30	6	A38418	A38418 Sequence 9	c 481	14.8	1.0	26	6	AX235192	AX235192 Sequence
c 409	15	1.0	30	6	A39952	A39952 Sequence 9	c 482	14.8	1.0	27	6	A28838	A28838 DNA constru
c 410	15	1.0	30	6	AR028197	AR028197 Sequence	c 483	14.8	1.0	27	6	A36932	A36932 Sequence 19
c 411	15	1.0	30	6	AR035990	AR035990 Sequence	c 484	14.8	1.0	27	6	A36933	A36933 Sequence 20
c 412	15	1.0	30	6	AR049410	AR049410 Sequence	c 485	14.8	1.0	27	6	AR039758	AR039758 Sequence
c 413	15	1.0	30	6	AR054423	AR054423 Sequence	c 486	14.8	1.0	27	6	AR068376	AR068376 Sequence
c 414	15	1.0	30	6	AR063332	AR063332 Sequence	c 487	14.8	1.0	27	6	AR099333	AR099333 Sequence
c 415	15	1.0	30	6	AR075227	AR075227 Sequence	c 488	14.8	1.0	27	6	AR121800	AR121800 Sequence
c 416	15	1.0	30	6	AR075242	AR075242 Sequence	c 489	14.8	1.0	27	6	AR150555	AR150555 Sequence
c 417	15	1.0	30	6	AR084473	AR084473 Sequence	c 490	14.8	1.0	27	6	AR177202	AR177202 Sequence
c 418	15	1.0	30	6	AR110771	AR110771 Sequence	c 491	14.8	1.0	27	6	AX268916	AX268916 Sequence
c 419	15	1.0	30	6	AR138600	AR138600 Sequence	c 492	14.8	1.0	27	6	BD000822	BD000822 Amplifica
c 420	15	1.0	30	6	AR152639	AR152639 Sequence	c 493	14.8	1.0	27	6	I63507	I63507 Sequence 8
c 421	15	1.0	30	6	AR152654	AR152654 Sequence	c 494	14.8	1.0	28	6	AX280435	AX280435 Sequence
c 422	15	1.0	30	6	AR169080	AR169080 Sequence	c 495	14.8	1.0	28	6	E49184	E49184 Aromatic am
c 423	15	1.0	30	6	AR172372	AR172372 Sequence	c 496	14.8	1.0	28	6	E51114	E51114 DNA encodin
c 424	15	1.0	30	6	AR176633	AR176633 Sequence	c 497	14.8	1.0	29	6	AR061350	AR061350 Sequence
c 425	15	1.0	30	6	AX036133	AX036133 Sequence	c 498	14.8	1.0	29	6	AR072438	AR072438 Sequence
c 426	15	1.0	30	6	AX082627	AX082627 Sequence	c 499	14.8	1.0	29	6	AR081740	AR081740 Sequence
c 427	15	1.0	30	6	AX268518	AX268518 Sequence	c 500	14.8	1.0	29	6	AR108249	AR108249 Sequence
c 428	15	1.0	30	6	AX280502	AX280502 Sequence	c 501	14.8	1.0	29	6	AR128049	AR128049 Sequence
c 429	15	1.0	30	6	AX323331	AX323331 Sequence	c 502	14.8	1.0	29	6	AR128051	AR128051 Sequence
c 430	15	1.0	30	6	E27931	E27931 DNA encodin	c 503	14.8	1.0	29	6	AR161635	AR161635 Sequence
c 431	15	1.0	30	6	E27933	E27933 DNA encodin	c 504	14.8	1.0	29	6	AR167972	AR167972 Sequence
c 432	15	1.0	30	6	I05684	I05684 Sequence 35	c 505	14.8	1.0	29	6	AX288078	AX288078 Sequence
c 433	15	1.0	30	6	I13608	I13608 Sequence 14	c 506	14.8	1.0	29	6	BD004852	BD004852 Antisense
c 434	15	1.0	30	6	I26096	I26096 Sequence 22	c 507	14.8	1.0	29	6	I16206	I16206 Sequence 32
c 435	15	1.0	30	6	I28798	I28798 Sequence 9	c 508	14.8	1.0	29	6	I26549	I26549 Sequence 24
c 436	15	1.0	30	6	I28808	I28808 Sequence 30	c 509	14.8	1.0	29	6	I66692	I66692 Sequence 32
c 437	15	1.0	30	6	I28810	I28810 Sequence 34	c 510	14.8	1.0	29	6	I84786	I84786 Sequence 32
c 438	15	1.0	30	6	I28812	I28812 Sequence 38	c 511	14.8	1.0	30	6	A46138	A46138 Sequence 33

c 512	14.8	1.0	30	6	AR012287	Sequence	585	14.6	1.0	26	6	AX280493	Sequence
c 513	14.8	1.0	30	6	AR120969	Sequence	c 586	14.6	1.0	26	6	AX306910	Sequence
c 514	14.8	1.0	30	6	AR151394	Sequence	c 587	14.6	1.0	26	6	E16263	Primer, 7/1
c 515	14.8	1.0	30	6	AR019149	Sequence	588	14.6	1.0	26	6	I51767	Sequence 35
c 516	14.8	1.0	30	6	AX035480	Sequence	589	14.6	1.0	26	6	I84367	Sequence 25
c 517	14.8	1.0	30	6	AX047295	Sequence	c 590	14.6	1.0	27	6	A83873	Sequence 8
c 518	14.8	1.0	30	6	AX056853	Sequence	c 591	14.6	1.0	27	6	AR084666	Sequence
c 519	14.8	1.0	30	6	AX207312	Sequence	c 592	14.6	1.0	27	6	AR150654	Sequence
c 520	14.8	1.0	30	6	AX250307	Sequence	c 593	14.6	1.0	27	6	AX004277	Sequence
c 521	14.8	1.0	30	6	AX350348	Sequence	c 594	14.6	1.0	27	6	AX099675	Sequence
c 522	14.8	1.0	30	6	BD004284	Apo E hum	c 595	14.6	1.0	27	6	E16203	Primer, 7/1
c 523	14.8	1.0	30	6	BD004286	Sequence	c 596	14.6	1.0	27	6	E27223	Novel physi
c 524	14.8	1.0	30	6	E32127	Soluble fus	c 597	14.6	1.0	27	6	E28287	Utilization
c 525	14.8	1.0	30	6	E49572	Novel micro	c 598	14.6	1.0	27	9	S81367	T cell anti
c 526	14.8	1.0	30	6	E55287	Novel metal	599	14.6	1.0	28	6	A47738	Sequence 2
c 527	14.8	1.0	30	6	I00580	Sequence 2	600	14.6	1.0	28	6	AR019409	Sequence
c 528	14.8	1.0	30	6	I12899	Sequence 6	c 601	14.6	1.0	28	6	AR088982	Sequence
c 529	14.8	1.0	30	6	I14985	Sequence 71	602	14.6	1.0	28	6	AR090997	Sequence
c 530	14.8	1.0	30	6	I34173	Sequence 19	c 603	14.6	1.0	28	6	AR120160	Sequence
c 531	14.8	1.0	30	6	I34577	Sequence 6	c 604	14.6	1.0	28	6	AR135333	Sequence
c 532	14.8	1.0	30	6	I36528	Sequence 6	c 605	14.6	1.0	28	6	AR141110	Sequence
c 533	14.8	1.0	30	6	I39859	Sequence 19	c 606	14.6	1.0	28	6	AR152402	Sequence
c 534	14.8	1.0	30	6	I60539	Sequence 19	c 607	14.6	1.0	28	6	AX048228	Sequence
c 535	14.8	1.0	30	6	I65268	Sequence 19	c 608	14.6	1.0	28	6	AX049389	Sequence
c 536	14.8	1.0	30	6	I73705	Sequence 71	c 609	14.6	1.0	28	6	AX052727	Sequence
c 537	14.8	1.0	30	6	I76284	Sequence 6	c 610	14.6	1.0	28	6	AX053170	Sequence
c 538	14.8	1.0	30	9	HSA313330	Homo sapi	611	14.6	1.0	28	6	AX146496	Sequence
c 539	14.6	1.0	21	6	AR022121	Sequence	c 612	14.6	1.0	28	6	AX236606	Sequence
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c 541	14.6	1.0	21	6	AR091441	Sequence	614	14.6	1.0	29	6	A06418	Phosphoryla
c 542	14.6	1.0	21	6	AR107110	Sequence	615	14.6	1.0	29	6	A10237	mutagenic o
c 543	14.6	1.0	21	6	AR122333	Sequence	c 616	14.6	1.0	29	6	AR145878	Sequence
c 544	14.6	1.0	21	6	AR122333	Sequence	617	14.6	1.0	29	6	AR146661	Sequence
c 545	14.6	1.0	21	6	AR166675	Sequence	c 618	14.6	1.0	29	6	AX032987	Sequence
c 546	14.6	1.0	21	6	AR177591	Sequence	619	14.6	1.0	29	6	AX068398	Sequence
c 547	14.6	1.0	21	6	AX191769	Sequence	c 620	14.6	1.0	29	6	AX203787	Sequence
c 548	14.6	1.0	21	6	I27510	Sequence 24	c 621	14.6	1.0	29	6	AX236529	Sequence
c 549	14.6	1.0	21	6	I46948	Sequence 41	c 622	14.6	1.0	29	6	AX236540	Sequence
c 550	14.6	1.0	22	6	AR053117	Sequence	623	14.6	1.0	29	6	AX259909	Sequence
c 551	14.6	1.0	22	6	AR078708	Sequence	624	14.6	1.0	29	6	AX262258	Sequence
c 552	14.6	1.0	22	6	AX350154	Sequence	c 625	14.6	1.0	29	6	I40381	Sequence 14
c 553	14.6	1.0	23	1	S58557	tRNA(GCAla	626	14.6	1.0	29	6	I62375	Sequence 21
c 554	14.6	1.0	23	6	AX029415	Sequence	c 627	14.6	1.0	29	6	I82242	Sequence 23
c 555	14.6	1.0	24	6	A50806	Sequence 27	c 628	14.6	1.0	29	6	I90776	Sequence 23
c 556	14.6	1.0	24	6	A57536	Sequence 28	c 629	14.6	1.0	30	6	A03926	Nucleotide
c 557	14.6	1.0	24	6	AR105037	Sequence	c 630	14.6	1.0	30	6	A03937	Sequence
c 558	14.6	1.0	24	6	AR107942	Sequence	c 631	14.6	1.0	30	6	A38420	Sequence 11
c 559	14.6	1.0	24	6	AR109997	Sequence	c 632	14.6	1.0	30	6	AR012225	Sequence
c 560	14.6	1.0	24	6	AR174895	Sequence	c 633	14.6	1.0	30	6	AR118760	Sequence
c 561	14.6	1.0	24	6	AR175553	Sequence	c 634	14.6	1.0	30	6	AR142063	Sequence
c 562	14.6	1.0	24	6	AX060777	Sequence	c 635	14.6	1.0	30	6	AX036135	Sequence
c 563	14.6	1.0	24	6	AX107818	Sequence	636	14.6	1.0	30	6	AX068298	Sequence
c 564	14.6	1.0	24	6	AX107819	Sequence	637	14.6	1.0	30	6	AX068961	Sequence
c 565	14.6	1.0	24	6	AX278277	Sequence	638	14.6	1.0	30	6	AX105609	Sequence
c 566	14.6	1.0	24	6	AX291349	Sequence	639	14.6	1.0	30	6	AX108044	Sequence
c 567	14.6	1.0	24	6	I13982	Sequence 1	c 640	14.6	1.0	30	6	AX113379	Sequence
c 568	14.6	1.0	24	6	I15081	Sequence 4	c 641	14.6	1.0	30	6	AX116759	Sequence
c 569	14.6	1.0	25	6	AR144353	Sequence	642	14.6	1.0	30	6	AX191285	Sequence
c 570	14.6	1.0	25	6	AR162808	Sequence	643	14.6	1.0	30	6	AX233628	Sequence
c 571	14.6	1.0	25	6	AR164345	Sequence	644	14.6	1.0	30	6	AX280449	Sequence
c 572	14.6	1.0	25	6	AX042474	Sequence	645	14.6	1.0	30	6	BD009707	A small v
c 573	14.6	1.0	25	6	AX116580	Sequence	646	14.6	1.0	30	6	BD010832	Novel pol
c 574	14.6	1.0	25	6	AX146499	Sequence	c 647	14.6	1.0	30	6	E04648	Synthetic n
c 575	14.6	1.0	25	6	AX279019	Sequence	c 648	14.6	1.0	30	6	E04979	DNA sequenc
c 576	14.6	1.0	25	6	AX298057	Sequence	649	14.6	1.0	30	6	E50446	Odoriferous
c 577	14.6	1.0	25	6	E32952	Novel xanth	650	14.6	1.0	30	6	E64329	Method for
c 578	14.6	1.0	25	6	I05879	Sequence 5	c 651	14.6	1.0	30	6	I06392	Sequence 12
c 579	14.6	1.0	25	6	I06814	Sequence 24	c 652	14.6	1.0	30	6	I21236	Sequence 11
c 580	14.6	1.0	25	6	I41343	Sequence 14	c 653	14.6	1.0	30	6	I25881	Sequence 11
c 581	14.6	1.0	25	6	I49091	Sequence 14	c 654	14.6	1.0	30	6	I26274	Sequence 11
c 582	14.6	1.0	26	6	AR050966	Sequence	655	14.6	1.0	30	6	I31689	Sequence 6
c 583	14.6	1.0	26	6	AR090860	Sequence	c 656	14.6	1.0	30	6	I43867	Sequence 2
c 584	14.6	1.0	26	6	AX081470	Sequence	c 657	14.6	1.0	30	6	I59930	Sequence 57

658	14.6	1.0	30	6	I62700	I62700 Sequence 8	c 731	14.4	1.0	25	6	AX236896	AX236896 Sequence
659	14.6	1.0	30	6	I71901	I71901 Sequence 5	732	14.4	1.0	25	6	AX239790	AX239790 Sequence
c 660	14.6	1.0	30	6	I73379	I73379 Sequence 4	c 732	14.4	1.0	25	6	AX239790	Sequence
c 661	14.6	1.0	30	6	I78509	I78509 Sequence 4	734	14.4	1.0	25	6	AX279163	AX279163 Sequence
c 662	14.6	1.0	30	6	I86788	I86788 Sequence 57	c 735	14.4	1.0	25	6	BD011138	BD011138 Human tel
c 663	14.6	1.0	30	6	I95813	I95813 Sequence 57	c 736	14.4	1.0	25	6	E36887	E36887 Human telom
664	14.4	1.0	17	6	A27314	A27314 Synthetic b	737	14.4	1.0	25	6	E38255	E38255 Hyperthermo
665	14.4	1.0	17	6	A79453	A79453 Sequence 27	738	14.4	1.0	25	6	E50832	E50832 Hyperthermo
666	14.4	1.0	17	6	A99246	A99246 Sequence 22	739	14.4	1.0	26	6	AR008926	AR008926 Sequence
667	14.4	1.0	17	6	AR105858	AR105858 Sequence	740	14.4	1.0	26	6	AR086735	AR086735 Sequence
c 668	14.4	1.0	17	6	AX216347	AX216347 Sequence	741	14.4	1.0	26	6	AR087621	AR087621 Sequence
c 669	14.4	1.0	17	6	AX216895	AX216895 Sequence	742	14.4	1.0	26	6	AR087899	AR087899 Sequence
c 670	14.4	1.0	17	6	AX272811	AX272811 Sequence	743	14.4	1.0	26	6	AR087963	AR087963 Sequence
c 671	14.4	1.0	17	6	AX272812	AX272812 Sequence	c 744	14.4	1.0	26	6	AR090530	AR090530 Sequence
672	14.4	1.0	19	6	AX132651	AX132651 Sequence	745	14.4	1.0	26	6	AR160519	AR160519 Sequence
673	14.4	1.0	20	6	A51169	A51169 Sequence 38	c 746	14.4	1.0	26	6	AX029021	AX029021 Sequence
674	14.4	1.0	20	6	A76994	A76994 Sequence 38	c 747	14.4	1.0	26	6	AX029022	AX029022 Sequence
675	14.4	1.0	20	6	AR095643	AR095643 Sequence	748	14.4	1.0	26	6	I80117	I80117 Sequence 6
676	14.4	1.0	20	6	I83630	I83630 Sequence 4	749	14.4	1.0	26	6	I80181	I80181 Synthetic 70
c 677	14.4	1.0	20	12	ASE287245	AJ287245 Artificia	750	14.4	1.0	27	6	A03889	A03889 Synthetic D
678	14.4	1.0	21	6	AX006366	AX006366 Sequence	c 751	14.4	1.0	27	6	A03890	A03890 Synthetic D
679	14.4	1.0	21	6	AX077316	AX077316 Sequence	752	14.4	1.0	27	6	A31430	A31430 pSA302 DNA
680	14.4	1.0	21	6	AX095287	AX095287 Sequence	c 753	14.4	1.0	27	6	A31431	A31431 pSA302 DNA
681	14.4	1.0	21	6	AX096267	AX096267 Sequence	754	14.4	1.0	27	6	A58249	A58249 Sequence 11
682	14.4	1.0	21	6	AX096784	AX096784 Sequence	c 755	14.4	1.0	27	6	A58250	A58250 Sequence 12
683	14.4	1.0	21	6	AX096906	AX096906 Sequence	756	14.4	1.0	27	6	A92218	A92218 Sequence 20
684	14.4	1.0	21	6	AX164074	AX164074 Sequence	757	14.4	1.0	27	6	AR014496	AR014496 Sequence
685	14.4	1.0	21	6	AX283158	AX283158 Sequence	c 758	14.4	1.0	27	6	AR027735	AR027735 Sequence
c 686	14.4	1.0	21	6	I39880	I39880 Sequence 10	c 759	14.4	1.0	27	6	AR028784	AR028784 Sequence
687	14.4	1.0	21	6	I44730	I44730 Sequence 9	760	14.4	1.0	27	6	AR029610	AR029610 Sequence
c 688	14.4	1.0	22	6	A46045	A46045 Sequence 34	c 761	14.4	1.0	27	6	AR037001	AR037001 Sequence
c 689	14.4	1.0	22	6	A57081	A57081 Sequence 34	c 762	14.4	1.0	27	6	AR071717	AR071717 Sequence
c 690	14.4	1.0	22	6	A60146	A60146 Sequence 34	c 763	14.4	1.0	27	6	AR143831	AR143831 Sequence
c 691	14.4	1.0	22	6	A79496	A79496 Sequence 34	764	14.4	1.0	27	6	AR177837	AR177837 Sequence
c 692	14.4	1.0	22	6	A80230	A80230 Sequence 34	c 765	14.4	1.0	27	6	AX022185	AX022185 Sequence
c 693	14.4	1.0	22	6	A80339	A80339 Sequence 34	c 766	14.4	1.0	27	6	AX069484	AX069484 Sequence
c 694	14.4	1.0	22	6	AR035382	AR035382 Sequence	c 767	14.4	1.0	27	6	AX268375	AX268375 Sequence
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c 697	14.4	1.0	22	6	AR077005	AR077005 Sequence	c 770	14.4	1.0	27	6	E12636	E12636 DNA oligome
c 698	14.4	1.0	22	6	AR094726	AR094726 Sequence	c 771	14.4	1.0	27	6	E14188	E14188 PCR primer
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c 700	14.4	1.0	24	6	A82362	A82362 Sequence 5	c 773	14.4	1.0	27	6	I30045	I30045 Sequence 20
c 701	14.4	1.0	24	6	A8207499	A8207499 Sequence	774	14.4	1.0	27	10	MMBR170	X94863 M.musculus
c 702	14.4	1.0	24	6	AX278867	AX278867 Sequence	775	14.4	1.0	28	6	AR044105	AR044105 Sequence
c 703	14.4	1.0	24	6	AX288919	AX288919 Sequence	c 776	14.4	1.0	28	6	AR090191	AR090191 Sequence
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c 706	14.4	1.0	24	6	E30197	E30197 DNA associa	779	14.4	1.0	28	23	E09559	E09559 primer, 9/2
c 707	14.4	1.0	24	6	I43075	I43075 Sequence 58	780	14.4	1.0	29	6	A67702	A67702 Sequence 32
c 708	14.4	1.0	24	9	HSOP3B	X72128 H.sapiens (	781	14.4	1.0	29	6	AR027939	AR027939 Sequence
709	14.4	1.0	25	6	AR061762	AR061762 Sequence	782	14.4	1.0	29	6	AR071298	AR071298 Sequence
710	14.4	1.0	25	6	AR062003	AR062003 Sequence	783	14.4	1.0	29	6	AR108731	AR108731 Sequence
c 711	14.4	1.0	25	6	AR071195	AR071195 Sequence	784	14.4	1.0	29	6	AX099568	AX099568 Sequence
c 712	14.4	1.0	25	6	AR071196	AR071196 Sequence	785	14.4	1.0	29	6	E26547	E26547 DTSDT gene
713	14.4	1.0	25	6	AR071198	AR071198 Sequence	c 786	14.4	1.0	29	6	I08866	I08866 Sequence 7
714	14.4	1.0	25	6	AR071199	AR071199 Sequence	787	14.4	1.0	29	6	I59512	I59512 Sequence 19
715	14.4	1.0	25	6	AR081762	AR081762 Sequence	788	14.4	1.0	30	6	A02530	A02530 Nucleotide
c 716	14.4	1.0	25	6	AR090259	AR090259 Sequence	789	14.4	1.0	30	6	A02541	A02541 Nucleotide
c 717	14.4	1.0	25	6	AR091048	AR091048 Sequence	c 790	14.4	1.0	30	6	A02706	A02706 Synthetic o
718	14.4	1.0	25	6	AR167994	AR167994 Sequence	c 791	14.4	1.0	30	6	A11504	A11504 Nucleotide
719	14.4	1.0	25	6	AX005969	AX005969 Sequence	c 792	14.4	1.0	30	6	A11506	A11506 Nucleotide
720	14.4	1.0	25	6	AX042658	AX042658 Sequence	c 793	14.4	1.0	30	6	A11507	A11507 Nucleotide
721	14.4	1.0	25	6	AX042675	AX042675 Sequence	c 794	14.4	1.0	30	6	A11508	A11508 Nucleotide
c 722	14.4	1.0	25	6	AX043077	AX043077 Sequence	c 795	14.4	1.0	30	6	A11510	A11510 Nucleotide
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724	14.4	1.0	25	6	AX043400	AX043400 Sequence	797	14.4	1.0	30	6	A12586	A12586 oligonucleo
c 725	14.4	1.0	25	6	AX067189	AX067189 Sequence	c 798	14.4	1.0	30	6	A42937	A42937 Sequence 7
726	14.4	1.0	25	6	AX128280	AX128280 Sequence	c 799	14.4	1.0	30	6	A51212	A51212 Sequence 14
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c 728	14.4	1.0	25	6	AX236602	AX236602 Sequence	c 801	14.4	1.0	30	6	A93352	A93352 Sequence 3
729	14.4	1.0	25	6	AX236640	AX236640 Sequence	c 802	14.4	1.0	30	6	AR000090	AR000090 Sequence
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809	14.4	1.0	30	6	AR095531	Sequence	AR095531	Sequence	14.2	1.0	21	6	AX095501	Sequence
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813	14.4	1.0	30	6	AR125801	Sequence	AR125801	Sequence	14.2	1.0	21	6	AX203596	Sequence
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824	14.4	1.0	30	6	AX233425	Sequence	AX233425	Sequence	14.2	1.0	22	6	I75516	Sequence 12
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831	14.4	1.0	30	6	BD009706	A small v	BD009706	A small v	14.2	1.0	23	6	A51879	Sequence 43
832	14.4	1.0	30	6	BD010134	Peptide 1	BD010134	Peptide 1	14.2	1.0	23	6	A51891	Sequence 55
833	14.4	1.0	30	6	BD010663	Helicobac	BD010663	Helicobac	14.2	1.0	23	6	A87525	Sequence 6
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836	14.4	1.0	30	6	I15131	Sequence 2	I15131	Sequence 2	14.2	1.0	23	6	AR013932	Sequence
837	14.4	1.0	30	6	I16204	Sequence 30	I16204	Sequence 30	14.2	1.0	23	6	AR05844	Sequence
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843	14.4	1.0	30	6	I92761	Sequence 27	I92761	Sequence 27	14.2	1.0	23	6	I27136	Sequence 32
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855	14.2	1.0	20	6	AR123064	Sequence	AR123064	Sequence	14.2	1.0	24	6	AR110436	Sequence
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857	14.2	1.0	20	6	AR125515	Sequence	AR125515	Sequence	14.2	1.0	24	6	AR138768	Sequence
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866	14.2	1.0	20	6	AX078035	Sequence	AX078035	Sequence	14.2	1.0	24	6	I68919	Sequence 18
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868	14.2	1.0	20	6	AX224972	Sequence	AX224972	Sequence	14.2	1.0	24	6	I86333	Sequence 68
869	14.2	1.0	20	6	AX224973	Sequence	AX224973	Sequence	14.2	1.0	25	6	AR091534	Sequence
870	14.2	1.0	20	6	AX224975	Sequence	AX224975	Sequence	14.2	1.0	25	6	AR102227	Sequence
871	14.2	1.0	20	6	AX298625	Sequence	AX298625	Sequence	14.2	1.0	25	6	AX002715	Sequence
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873	14.2	1.0	20	6	E09828	Primer, 9/2	E09828	Primer, 9/2	14.2	1.0	25	6	AX268961	Sequence
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876	14.2	1.0	21	6	AR091740	Sequence	AR091740	Sequence	14.2	1.0	26	6	AR063807	Sequence
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950 14.2 1.0 26 6 AR091099 Sequence
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967 14.2 1.0 27 6 E26666 Improved me
968 14.2 1.0 28 6 A00054 Nucleotide
969 14.2 1.0 28 6 A18112 oligonucleo
c 970 14.2 1.0 28 6 AR090587 Sequence
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c 995 14.2 1.0 29 6 I90792 Sequence 48
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c 997 14.2 1.0 30 6 A02542 Nucleotide
c 998 14.2 1.0 30 6 A17723 Nucleotide
c 999 14.2 1.0 30 6 A23464 Oligonucleo
c1000 14.2 1.0 30 6 A23466 Oligonucleo

ALIGNMENTS

RESULT 1
AR091086/c 28 bp DNA linear PAT 07-SEP-2000
LOCUS AR091086 Sequence 1206 from patent US 5994076.
DEFINITION AR091086
ACCESSION AR091086
VERSION AR091086.1 GI:10017841
KEYWORDS
SOURCE
ORGANISM
Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 28)
AUTHORS Chenchik,A., Jolkhadze,G. and Bibilashvilli,R.
TITLE Methods of assaying differential expression
JOURNAL Patent: US 5994076-A 1206 30-NOV-1999;
FEATURES
source Location/Qualifiers
1..28
/organism="unknown"

BASE COUNT 10 a 7 c 6 g 5 t
ORIGIN
Query Match 2.0%; Score 28; DB 6; Length 28;
Best Local Similarity 100.0%; Pred.No. 7.8e+05;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1285 atgaagcacccttgatcttgggtgctcg 1312
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Db 28 ATGAAGCACCCTTGATCTTGGTGTCTCG 1
RESULT 2
AR091085 26 bp DNA linear PAT 07-SEP-2000
LOCUS AR091085 Sequence 1205 from patent US 5994076.
DEFINITION AR091085
ACCESSION AR091085
VERSION AR091085.1 GI:10017840
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 26)
AUTHORS Chenchik,A., Jolkhadze,G. and Bibilashvilli,R.
TITLE Methods of assaying differential expression
JOURNAL Patent: US 5994076-A 1205 30-NOV-1999;
FEATURES
source Location/Qualifiers
1..26
/organism="unknown"
BASE COUNT 5 a 4 c 10 g 7 t
ORIGIN
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Best Local Similarity 100.0%; Pred.No. 1.6e+06;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1009 tggagaacctggatggccttagggtt 1034
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Db 1 TGGAGAACCTGGATGGCCTTAGGGTT 26
RESULT 3
AR098748/c 22 bp DNA linear PAT 14-FEB-2001
LOCUS AR098748 Sequence 3 from patent US 6077672.
DEFINITION AR098748
ACCESSION AR098748
VERSION AR098748.1 GI:12808514
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 22)
AUTHORS Montal,B.P. and Cowsert,L.M.
TITLE Antisense modulation of TRADD expression
JOURNAL Patent: US 6077672-A 3 20-JUN-2000;
FEATURES
source Location/Qualifiers
1..22
/organism="unknown"
BASE COUNT 4 a 8 c 3 g 7 t
ORIGIN
Query Match 1.5%; Score 22; DB 6; Length 22;
Best Local Similarity 100.0%; Pred.No. 6.4e+06;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 494 atgaagaactggctgagctgga 515
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Db 22 ATGAAGAAGCTGGCTGAGCTGGA 1

Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 21)
Cargill, M., Ireland, J.S. and Lander, E.S.
Human single nucleotide polymorphisms
TITLE
Patent: WO 0138576-A 144 31-MAY-2001;
WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH (US)
FEATURES
source
1. .21
Location/Qualifiers
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/db_xref="taxon:9606"
4 a 7 c 5 g 4 t 1 others
BASE COUNT 4 a 7 c 5 g 4 t 1 others
ORIGIN

Query Match 1.4%; Score 20.6; DB 6; Length 21;
Best Local Similarity 95.2%; Pred. No. 1e+07;
Matches 20; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 827 gactgtacgagcagccttc 847
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Db 1 GACTGTACGAKAGCGCTTCC 21

RESULT 9
AR098747
LOCUS AR098747 20 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 2 from patent US 6077672.
ACCESSION AR098747
VERSION AR098747.1 GI:12808513
KEYWORDS
SOURCE Unknown.
ORGANISM
REFERENCE 1 (bases 1 to 20)
AUTHORS Monia, B.P. and Cowsett, L.M.
TITLE Antisense modulation of TRADD expression
JOURNAL Patent: US 6077672-A 2 20-JUN-2000;
FEATURES
source
1. .20
Location/Qualifiers
/organism="unknown"
BASE COUNT 4 a 3 c 8 g 5 t
ORIGIN

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Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 440 acgaggagcgtgttgagt 459
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Db 1 ACGAGGAGCGCTGTGTGAGT 20

RESULT 10
I84401
LOCUS I84401 30 bp DNA linear PAT 04-APR-1998
DEFINITION Sequence 2 from patent US 5695933.
ACCESSION I84401
VERSION I84401.1 GI:3021921
KEYWORDS
SOURCE Unknown.
ORGANISM
REFERENCE 1 (bases 1 to 30)
AUTHORS Schalling, M., Hudson, T.J. and Housman, D.E.
TITLE Direct detection of expanded nucleotide repeats in the human genome
JOURNAL Patent: US 5695933-A 2 09-DEC-1997;
FEATURES
source
1. .30
Location/Qualifiers
/organism="unknown"
BASE COUNT 0 a 20 c 10 g 0 t
ORIGIN

Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 21)
Cargill, M., Ireland, J.S. and Lander, E.S.
Human single nucleotide polymorphisms
TITLE
Patent: WO 0138576-A 144 31-MAY-2001;
WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH (US)
FEATURES
source
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Location/Qualifiers
/organism="Homo sapiens"
/db_xref="taxon:9606"
4 a 7 c 5 g 4 t 1 others
BASE COUNT 4 a 7 c 5 g 4 t 1 others
ORIGIN

Query Match 1.4%; Score 20.6; DB 6; Length 21;
Best Local Similarity 95.2%; Pred. No. 1e+07;
Matches 20; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 827 gactgtacgagcagccttc 847
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Db 1 GACTGTACGAKAGCGCTTCC 21

RESULT 9
AR098747
LOCUS AR098747 20 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 2 from patent US 6077672.
ACCESSION AR098747
VERSION AR098747.1 GI:12808513
KEYWORDS
SOURCE Unknown.
ORGANISM
REFERENCE 1 (bases 1 to 20)
AUTHORS Monia, B.P. and Cowsett, L.M.
TITLE Antisense modulation of TRADD expression
JOURNAL Patent: US 6077672-A 2 20-JUN-2000;
FEATURES
source
1. .20
Location/Qualifiers
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BASE COUNT 4 a 3 c 8 g 5 t
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Best Local Similarity 100.0%; Pred. No. 1.3e+07;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 10
I84401
LOCUS I84401 30 bp DNA linear PAT 04-APR-1998
DEFINITION Sequence 2 from patent US 5695933.
ACCESSION I84401
VERSION I84401.1 GI:3021921
KEYWORDS
SOURCE Unknown.
ORGANISM
REFERENCE 1 (bases 1 to 30)
AUTHORS Schalling, M., Hudson, T.J. and Housman, D.E.
TITLE Direct detection of expanded nucleotide repeats in the human genome
JOURNAL Patent: US 5695933-A 2 09-DEC-1997;
FEATURES
source
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Location/Qualifiers
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BASE COUNT 0 a 20 c 10 g 0 t
ORIGIN

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Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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Db 3 GCCGCGCGCGCGCGCGCGCGCGCGCG 30

RESULT 11
AR136837/c
LOCUS AR136837 28 bp DNA linear PAT 16-JUN-2001
DEFINITION Sequence 6 from patent US 6162613.
ACCESSION AR136837
VERSION AR136837.1 GI:14478087
KEYWORDS
SOURCE Unknown.
ORGANISM
REFERENCE 1 (bases 1 to 28)
AUTHORS Su, M. Shin-San, Fox, T., Wilson, K. Philip and Germann, U. A.
TITLE Methods for designing inhibitors of serine/threonine-kinases and tyrosine kinases
JOURNAL Patent: US 6162613-A 6 19-DEC-2000;
FEATURES
source
1. .28
Location/Qualifiers
/organism="unknown"
BASE COUNT 4 a 7 c 13 g 4 t
ORIGIN

Query Match 1.4%; Score 19.8; DB 6; Length 28;
Best Local Similarity 91.3%; Pred. No. 1.3e+07;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 621 gccgcgcgcgcgcgcgcacactg 643
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Db 27 GCCGCGCGCGCGCGCGCGCATATG 5

RESULT 12
AR084578
LOCUS AR084578 21 bp DNA linear PAT 01-SEP-2000
DEFINITION Sequence 67 from patent US 5981185.
ACCESSION AR084578
VERSION AR084578.1 GI:10011349
KEYWORDS
SOURCE Unknown.
ORGANISM
REFERENCE 1 (bases 1 to 21)
AUTHORS Matson, R.S., Coassin, P.J., Rampal, J.B. and Caskey, C. Thomas.
TITLE Oligonucleotide repeat arrays
JOURNAL Patent: US 5981185-A 67 09-NOV-1999;
FEATURES
source
1. .21
Location/Qualifiers
/organism="unknown"
BASE COUNT 0 a 14 c 7 g 0 t
ORIGIN

Query Match 1.4%; Score 19.4; DB 6; Length 21;
Best Local Similarity 95.2%; Pred. No. 1.6e+07;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 621 gccgcgcgcgcgcgcgcacac 641
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RESULT 13
AR084582/c

LOCUS AR084582 21 bp DNA linear PAT 01-SEP-2000
DEFINITION Sequence 71 from patent US 5981185.
ACCESSION AR084582
VERSION AR084582.1 GI:10011353
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 21)
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.
TITLE Oligonucleotide repeat arrays
JOURNAL Patent: US 5981185-A 71 09-NOV-1999;
FEATURES Location/Qualifiers
source 1..21
BASE COUNT 0 a 7 c 14 g 0 t
ORIGIN

Query Match 1.4%; Score 19.4; DB 6; Length 21;
Best Local Similarity 95.2%; Pred. No. 1.6e+07;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 621 gccgcgcgcgcgcgcgcacc 641
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Db 21 GCCGCGCGCGCGCGCGCGCC 1

RESULT 14
AR093142/c
LOCUS AR093142 21 bp DNA linear PAT 08-SEP-2000
DEFINITION Sequence 11 from patent US 5998596.
ACCESSION AR093142
VERSION AR093142.1 GI:10019894
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 21)
AUTHORS Bergan,R. and Neckers,L.
TITLE Inhibition of protein kinase activity by aptameric action of oligonucleotides
JOURNAL Patent: US 5998596-A 11 07-DEC-1999;
FEATURES Location/Qualifiers
source 1..21
BASE COUNT 0 a 7 c 14 g 0 t
ORIGIN

Query Match 1.4%; Score 19.4; DB 6; Length 21;
Best Local Similarity 95.2%; Pred. No. 1.6e+07;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 621 gccgcgcgcgcgcgcgcacc 641
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Db 21 GCCGCGCGCGCGCGCGCGCC 1

RESULT 15
AR078307/c
LOCUS AR078307 24 bp DNA linear PAT 31-AUG-2000
DEFINITION Sequence 17 from patent US 5962332.
ACCESSION AR078307
VERSION AR078307.1 GI:10005053
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 24)
AUTHORS Singer,R.H. and Taneja,K.L.
TITLE Detection of trinucleotide repeats by in situ hybridization
JOURNAL Patent: US 5962332-A 17 05-OCT-1999;

FEATURES Source Location/Qualifiers
1..24
BASE COUNT 0 a 6 c 14 g 2 t 2 others
ORIGIN

Query Match 1.4%; Score 19.4; DB 6; Length 24;
Best Local Similarity 90.9%; Pred. No. 1.5e+07;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 620 agccgcgcgcgcgcgcgcacc 641
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Db 24 ANCCGCGCGCGCGCGCGCC 3

Search completed: August 18, 2002, 19:08:00
Job time: 6780 sec

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: August 18, 2002, 17:13:55 ; Search time 1596.21 Seconds
(without alignments)
12133.824 Million cell updates/sec

Title: US-09-763-748-1

Perfect score: 1435

Sequence: 1 ctgcccgcgtgggaaccca.....gataataagataacacgg 1435

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 13736207 seqs, 6748477542 residues

Total number of hits satisfying chosen parameters: 28088

Minimum DB seq length: 0

Maximum DB seq length: 30

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

EST: *

1: em_estba: *
2: em_esthum: *
3: em_estin: *
4: em_estmu: *
5: em_estov: *
6: em_estpl: *
7: em_estro: *
8: em_htc: *
9: gb_est1: *
10: gb_est2: *
11: gb_htc: *
12: gb_gss: *
13: em_gss_hum: *
14: em_gss_inv: *
15: em_gss_pln: *
16: em_gss_vrt: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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c 288	13.2	0.9	22	12	A2766712	A2766712	1M0564A03	c 361	13.2	0.9	27	12	AA717506	AA717506	vu22e03.r
c 289	13.2	0.9	22	12	A2769521	A2769521	1M0570018	c 362	13.2	0.9	28	9	AA986325	AA986325	uc79g12.x
c 290	13.2	0.9	22	12	TA7H01P	AL452582	T. brucei	c 363	13.2	0.9	28	12	AI560563	AI560563	tg49p05.x
c 291	13.2	0.9	23	12	A2392483	A2392483	1M0155D08	c 364	13.2	0.9	28	9	AI654528	AI654528	cg91n02.x
c 292	13.2	0.9	23	12	A2793326	A2793326	2M0046B04	c 365	13.2	0.9	28	9	AI687742	AI687742	tp93h01.x
c 293	13.2	0.9	23	12	A2968672	A2968672	2M0241B09	c 366	13.2	0.9	28	9	AI699660	AI699660	we58H01.x
c 294	13.2	0.9	24	12	A2346754	A2346754	1M0082E12	c 367	13.2	0.9	28	9	R84946	R84946	yt65g08.r1
c 295	13.2	0.9	24	12	A2778465	A2778465	2M0013G17	c 368	13.2	0.9	28	10	A025017	A025017	EP(2)1032
c 296	13.2	0.9	25	9	AI206423	AI206423	gg22h05.x	c 369	13.2	0.9	28	12	A2331927	A2331927	1M0060G01
c 297	13.2	0.9	25	9	AI471126	AI471126	tf90e05.x	c 370	13.2	0.9	28	12	A2343801	A2343801	1M0077B04
c 298	13.2	0.9	25	10	AI913416	AI913416	tz77a09.x	c 371	13.2	0.9	28	12	A2404398	A2404398	1M0172L20
c 299	13.2	0.9	25	10	H93534	H93534	yy08g12.r1	c 372	13.2	0.9	28	12	A2430095	A2430095	1M0214J19
c 300	13.2	0.9	25	12	A2485537	A2485537	1M0313F03	c 373	13.2	0.9	28	12	A2438922	A2438922	1M0229G18
c 301	13.2	0.9	25	12	A2500456	A2500456	1M0338O17	c 374	13.2	0.9	28	12	A2480483	A2480483	1M0302J04
c 302	13.2	0.9	25	12	A2611099	A2611099	1M0436K13	c 375	13.2	0.9	28	12	A2486749	A2486749	1M0315G02
c 303	13.2	0.9	25	12	A2646830	A2646830	1M0513I04	c 376	13.2	0.9	28	12	A2486762	A2486762	1M0315G02
c 304	13.2	0.9	25	12	A2780325	A2780325	2M0017N06	c 377	13.2	0.9	28	12	A2504966	A2504966	1M0345K21
c 305	13.2	0.9	25	12	A2853337	A2853337	2M0156A04	c 378	13.2	0.9	28	12	A2591954	A2591954	1M0402N20
c 306	13.2	0.9	25	12	A2945526	A2945526	2M0206L22	c 379	13.2	0.9	28	12			
c 307	13.2	0.9	26	12	AQ028209	AQ028209	1(3)05652	c 380	13.2	0.9	28	12			
c 308	13.2	0.9	26	12	A2307137	A2307137	1M0008F06	c 381	13.2	0.9	28	12			
c 309	13.2	0.9	26	12	A2308611	A2308611	1M0011G16	c 382	13.2	0.9	28	12			

c 383	13.2	0.9	28	12	A2592621	1M0403J07	AZ592621	456	13	0.9	22	9	AA894572	AA894572 of91902.s
c 384	13.2	0.9	28	12	A2640161	1M0501G23	AZ640161	457	13	0.9	22	9	AA908697	AA908697 o101a07.s
c 385	13.2	0.9	28	12	A2660134	1M0538I01	AZ660134	458	13	0.9	22	9	AI080445	AI080445 o82d10.s
c 386	13.2	0.9	28	12	A2768130	1M0568A02	AZ768130	c 459	13	0.9	22	9	AI758492	AI758492 ty08g06.x
c 387	13.2	0.9	28	12	A2802448	2M0061B20	AZ802448	460	13	0.9	22	10	BM395131	BM395131 50072-2-7
c 388	13.2	0.9	28	12	A2806290	2M0068C13	AZ806290	461	13	0.9	22	12	AZ318425	AZ318425 1M0037M14
c 389	13.2	0.9	28	12	A2853379	2M0116A09	AZ853379	c 462	13	0.9	23	10	BM396189	BM396189 5009-0-18
c 390	13.2	0.9	28	12	A2853419	2M0156B09	AZ853419	c 463	13	0.9	23	12	AZ774668	AZ774668 2M0004N08
c 391	13.2	0.9	28	12	A2861884	2M0168D20	AZ861884	464	13	0.9	23	12	AZ822892	AZ822892 2M0096H04
c 392	13.2	0.9	28	12	A2863212	2M0171E20	AZ863212	c 465	13	0.9	23	12	TA266D03P	TA266D03P T. brucei
c 393	13.2	0.9	28	12	A2871505	2M0184I20	AZ871505	c 466	13	0.9	24	10	BM397719	BM397719 5009-0-36
c 394	13.2	0.9	28	12	A2871733	2M0184E16	AZ871733	c 467	13	0.9	24	10	BM397803	BM397803 5009-0-37
c 395	13.2	0.9	28	12	A2872959	2M0186F03	AZ872959	c 468	13	0.9	24	10	BM398293	BM398293 5009-0-43
c 396	13.2	0.9	28	12	A2980190	2M0257G09	AZ980190	469	13	0.9	24	12	AZ327725	AZ327725 1M0051H14
c 397	13.2	0.9	28	12	TA130B12P		AL464095	c 470	13	0.9	24	12	AZ505513	AZ505513 1M0346B13
c 398	13.2	0.9	29	9	AW335514	S48B6 AGS	AW335514	471	13	0.9	24	12	AZ600832	AZ600832 1M0418O14
c 399	13.2	0.9	29	10	BM396481	5009-0-21	BM396481	472	13	0.9	25	9	AI363940	AI363940 qw34b12.x
c 400	13.2	0.9	29	12	AZ315608	1M0032G23	AZ315608	c 473	13	0.9	25	12	AZ309919	AZ309919 1M0017C19
c 401	13.2	0.9	29	12	AZ345862	1M0080I14	AZ345862	c 474	13	0.9	25	12	AZ318035	AZ318035 1M0036L12
c 402	13.2	0.9	29	12	AZ346074	1M0081I05	AZ346074	c 475	13	0.9	25	12	AZ335954	AZ335954 1M0066E06
c 403	13.2	0.9	29	12	AZ361996	1M0106J22	AZ361996	c 476	13	0.9	25	12	AZ796046	AZ796046 2M0051B17
c 404	13.2	0.9	29	12	AZ369495	1M0120C08	AZ369495	c 477	13	0.9	25	12	AZ812604	AZ812604 2M0079F23
c 405	13.2	0.9	29	12	AZ390129	1M0151N18	AZ390129	478	13	0.9	25	12	TA235A01Q	TA235A01Q T. brucei
c 406	13.2	0.9	29	12	AZ423751	1M0203B22	AZ423751	c 479	13	0.9	25	12	TA236H10Q	TA236H10Q T. brucei
c 407	13.2	0.9	29	12	AZ458872	1M0263Q13	AZ458872	c 480	13	0.9	26	12	TA338C07P	TA338C07P T. brucei
c 408	13.2	0.9	29	12	AZ479604	1M0300E21	AZ479604	c 481	13	0.9	26	12	TA387F09Q	TA387F09Q T. brucei
c 409	13.2	0.9	29	12	AZ491476	1M0325K05	AZ491476	c 482	13	0.9	27	9	AW250272	AW250272 2821187.5
c 410	13.2	0.9	29	12	AZ659788	1M0537O24	AZ659788	c 483	13	0.9	27	10	BM392622	BM392622 50071-2-1
c 411	13.2	0.9	29	12	AZ662726	1M0542C01	AZ662726	c 484	13	0.9	27	10	BM393779	BM393779 50072-2-1
c 412	13.2	0.9	29	12	AZ764508	1M0560O06	AZ764508	c 485	13	0.9	27	10	BM396596	BM396596 5009-0-23
c 413	13.2	0.9	29	12	AZ795012	2M0049I04	AZ795012	c 486	13	0.9	27	10	BM397444	BM397444 5009-0-32
c 414	13.2	0.9	29	12	AZ808168	1M0071O08	AZ808168	c 487	13	0.9	27	10	BM398876	BM398876 5009-0-50
c 415	13.2	0.9	29	12	AZ854411	2M0158B05	AZ854411	c 488	13	0.9	27	12	AZ39270	AZ39270 1M0070K10
c 416	13.2	0.9	29	12	AZ979126	2M0255O11	AZ979126	c 489	13	0.9	27	12	AZ622014	AZ622014 1M0455I03
c 417	13.2	0.9	30	10	BM042344	603616447	BM042344	c 490	13	0.9	27	12	AZ644071	AZ644071 1M0507D22
c 418	13.2	0.9	30	10	BM396292	5009-0-2-	BM396292	c 491	13	0.9	27	12	AZ776617	AZ776617 2M0010D23
c 419	13.2	0.9	30	10	BM398517	5009-0-46	BM398517	c 492	13	0.9	27	12	TA289607Q	TA289607Q T. brucei
c 420	13.2	0.9	30	12	AZ311581	1M0027O05	AZ311581	c 493	13	0.9	27	12	TA356D05P	TA356D05P T. brucei
c 421	13.2	0.9	30	12	AZ320274	1M0040C18	AZ320274	c 494	13	0.9	28	9	AA636118	AA636118 nr17h08.s
c 422	13.2	0.9	30	12	AZ323580	1M0045N05	AZ323580	c 495	13	0.9	28	9	AA962205	AA962205 om80e08.s
c 423	13.2	0.9	30	12	AZ345551	1M0080E14	AZ345551	c 496	13	0.9	28	9	AI267151	AI267151 aq36c12.x
c 424	13.2	0.9	30	12	AZ389258	1M0149K12	AZ389258	c 497	13	0.9	28	9	AI287864	AI287864 qv07d12.x
c 425	13.2	0.9	30	12	AZ390605	1M0152P01	AZ390605	c 498	13	0.9	28	9	AI492585	AI492585 ti29g08.x
c 426	13.2	0.9	30	12	AZ412491	1M0186A03	AZ412491	c 499	13	0.9	28	9	AI756191	AI756191 EUEstea40
c 427	13.2	0.9	30	12	AZ465216	1M0275D04	AZ465216	c 500	13	0.9	28	9	AI800199	AI800199 tr23h05.x
c 428	13.2	0.9	30	12	AZ487848	1M0317H13	AZ487848	c 501	13	0.9	28	10	BM396092	BM396092 5009-0-17
c 429	13.2	0.9	30	12	AZ490365	1M0323J14	AZ490365	c 502	13	0.9	28	10	BM396202	BM396202 5009-0-18
c 430	13.2	0.9	30	12	AZ503721	1M0343A11	AZ503721	c 503	13	0.9	28	10	BM396719	BM396719 5009-0-24
c 431	13.2	0.9	30	12	AZ588957	1M0397B08	AZ588957	c 504	13	0.9	28	10	BM398290	BM398290 5009-0-43
c 432	13.2	0.9	30	12	AZ623010	1M0460E14	AZ623010	c 505	13	0.9	28	12	AZ312487	AZ312487 1M0028B22
c 433	13.2	0.9	30	12	AZ638210	1M0498C06	AZ638210	c 506	13	0.9	28	12	AZ466981	AZ466981 1M0278L04
c 434	13.2	0.9	30	12	AZ655045	1M0520E05	AZ655045	c 507	13	0.9	28	12	TA186G09P	TA186G09P T. brucei
c 435	13.2	0.9	30	12	AZ655716	1M0530P14	AZ655716	c 508	13	0.9	29	10	D45817	D45817 HUMG03036
c 436	13.2	0.9	30	12	AZ658107	1M0534M12	AZ658107	c 509	13	0.9	29	12	AZ602942	AZ602942 1M0421O21
c 437	13.2	0.9	30	12	AZ764531	1M0560M15	AZ764531	c 510	13	0.9	29	12	AZ942017	AZ942017 2M0202E01
c 438	13.2	0.9	30	12	AZ783172	2M0024F08	AZ783172	c 511	13	0.9	29	12	AZ949281	AZ949281 2M0212M12
c 439	13.2	0.9	30	12	AZ788303	2M0035K15	AZ788303	c 512	13	0.9	29	12	BH023787	BH023787 BG02425-5
c 440	13.2	0.9	30	12	AZ807237	2M0069L19	AZ807237	c 513	13	0.9	29	12	AQ254876	AQ254876 EP(2)2583
c 441	13.2	0.9	30	12	AZ824951	2M0099E19	AZ824951	c 514	13	0.9	29	12	TA108H10Q	TA108H10Q T. brucei
c 442	13.2	0.9	30	12	AZ833458	2M0115L02	AZ833458	c 515	13	0.9	30	10	B1522323	B1522323 603081368
c 443	13.2	0.9	30	12	AZ845409	2M0145N10	AZ845409	c 516	13	0.9	30	10	BM396879	BM396879 5009-0-26
c 444	13.2	0.9	30	12	AZ861881	2M0168J17	AZ861881	c 517	13	0.9	30	10	BE277260	BE277260 601178250
c 445	13.2	0.9	30	12	AZ864315	2M0173P16	AZ864315	c 518	13	0.9	30	10	BE904656	BE904656 601498767
c 446	13.2	0.9	30	12	AZ864869	2M0174M09	AZ864869	c 519	13	0.9	30	12	AZ345704	AZ345704 1M0080G05
c 447	13.2	0.9	30	12	AZ942781	2M0203P06	AZ942781	c 520	13	0.9	30	12	AZ364675	AZ364675 1M0110K20
c 448	13.2	0.9	30	12	TA251B07P		AL483453	c 521	13	0.9	30	12	AZ501729	AZ501729 1M0340N09
c 449	13.2	0.9	30	12	TA348E10P		AL493613	c 522	13	0.9	30	12	AZ593933	AZ593933 1M0405C18
c 450	13	0.9	21	12	AZ341757	1M0074F18	AZ341757	c 523	13	0.9	30	12	AZ658957	AZ658957 1M0536H04
c 451	13	0.9	21	12	AZ443821	1M0338I07	AZ443821	c 524	13	0.9	30	12	AZ666770	AZ666770 1M0549G08
c 452	13	0.9	21	12	AZ589393	1M0398A20	AZ589393	c 525	13	0.9	30	12	AZ782713	AZ782713 2M0023M21
c 453	13	0.9	21	12	AZ775228	2M0007J23	AZ775228	c 526	13	0.9	30	12	AZ794672	AZ794672 2M0048K01
c 454	13	0.9	21	12	AZ861360	2M0167G17	AZ861360	c 527	13	0.9	30	12	AZ924604	AZ924604 4906.ic29
c 455	13	0.9	21	12	AZ959441	2M0227C07	AZ959441	c 528	13	0.9	30	12	TA158G08P	TA158G08P T. brucei

c 529	12.8	0.9	16	9	A1758574	AI758574	ty07g05..x	c 602	12.8	0.9	28	9	AI756191	AI756191	EtEStea40
c 530	12.8	0.9	19	9	A1537209	AI537209	tp06f07..x	c 603	12.8	0.9	28	10	N66991	N66991	Yz58f02..s1
c 531	12.8	0.9	19	9	A1718147	AI718147	as42f11..x	c 604	12.8	0.9	28	10	BE437460	BE437460	SFR004..A0
c 532	12.8	0.9	19	12	A2626573	A2626573	1M0146K12	c 605	12.8	0.9	28	12	A2307173	A2307173	1M008N03
c 533	12.8	0.9	20	12	A2626573	A2626573	1M0146K12	c 606	12.8	0.9	28	12	A2346711	A2346711	1M0082N02
c 534	12.8	0.9	20	12	A2466238	A2466238	1M0276016	c 607	12.8	0.9	28	12	A2432111	A2432111	1M0217E05
c 535	12.8	0.9	20	12	A2482160	A2482160	1M0307G09	c 608	12.8	0.9	28	12	A2461659	A2461659	1M0267D11
c 536	12.8	0.9	20	12	A2652975	A2652975	1M0526L20	c 609	12.8	0.9	28	12	A2591905	A2591905	1M0402P18
c 537	12.8	0.9	20	12	A2666896	A2666896	1M0549A24	c 610	12.8	0.9	28	12	A2633122	A2633122	1M0488L09
c 538	12.8	0.9	20	12	A2846437	A2846437	2M0146E10	c 611	12.8	0.9	28	12	A2776616	A2776616	2M0010K24
c 539	12.8	0.9	21	12	A2305158	A2305158	1M0005K11	c 612	12.8	0.9	28	12	A2790279	A2790279	2M0038P08
c 540	12.8	0.9	22	9	A173941	AI73941	tm04c11..x	c 613	12.8	0.9	28	12	A2794115	A2794115	2M0047D16
c 541	12.8	0.9	22	12	A2310074	A2310074	1M0018I15	c 614	12.8	0.9	28	12	A2820658	A2820658	2M0093C03
c 542	12.8	0.9	22	12	A2603366	A2603366	1M0422L17	c 615	12.8	0.9	28	12	A2832100	A2832100	2M0112G14
c 543	12.8	0.9	22	12	A2805739	A2805739	2M0067K14	c 616	12.8	0.9	28	12	A2872959	A2872959	2M0186F03
c 544	12.8	0.9	24	12	A2375584	A2375584	1M0129F04	c 617	12.8	0.9	28	12	A2986927	A2986927	2M0269N13
c 545	12.8	0.9	24	12	A2448798	A2448798	1M0246G09	c 618	12.8	0.9	29	10	BM397019	BM397019	5009-0-28
c 546	12.8	0.9	24	12	A2467278	A2467278	1M0278K02	c 619	12.8	0.9	29	10	BM398658	BM398658	5009-0-48
c 547	12.8	0.9	24	12	A2665864	A2665864	1M0547I04	c 620	12.8	0.9	29	12	A2346559	A2346559	1M0081M15
c 548	12.8	0.9	24	12	A2764494	A2764494	1M0560E06	c 621	12.8	0.9	29	12	A2596214	A2596214	1M0409A21
c 549	12.8	0.9	24	12	A2764512	A2764512	1M0560C12	c 622	12.8	0.9	29	12	A2602874	A2602874	1M0421B21
c 550	12.8	0.9	24	12	A2773118	A2773118	1M0584P20	c 623	12.8	0.9	29	12	A2608734	A2608734	1M0433F11
c 551	12.8	0.9	24	12	A2812591	A2812591	2M0079D21	c 624	12.8	0.9	29	12	A2663173	A2663173	1M0542J07
c 552	12.8	0.9	24	12	A2877568	A2877568	2M0192L03	c 625	12.8	0.9	29	12	A2759919	A2759919	1M0553H09
c 553	12.8	0.9	24	12	TA313F10P	AI45326	T..brucei	c 626	12.8	0.9	29	12	A2777445	A2777445	2M0011C19
c 554	12.8	0.9	24	12	TA339F07Q	AI45326	T..brucei	c 627	12.8	0.9	29	12	A2805819	A2805819	2M0067K19
c 555	12.8	0.9	25	9	AA962703	AA962703	op12e01..s	c 628	12.8	0.9	29	12	A2853380	A2853380	2M0067K19
c 556	12.8	0.9	25	9	AA334350	AA334350	zk20q01..r	c 629	12.8	0.9	29	12	TA215F10Q	TA215F10Q	T..brucei
c 557	12.8	0.9	25	9	AA994917	AA994917	ou21d04..s	c 630	12.8	0.9	30	2	HSW010186	HSW010186	Homo sapi
c 558	12.8	0.9	25	9	A1025765	AI025765	ov94a03..s	c 631	12.8	0.9	30	2	HSW010202	HSW010202	Homo sapi
c 559	12.8	0.9	25	9	A1181643	AI181643	qf79h08..r	c 632	12.8	0.9	30	2	HSW010327	HSW010327	Homo sapi
c 560	12.8	0.9	25	9	A1249715	AI249715	qb76c09..x	c 633	12.8	0.9	30	2	HSW010337	HSW010337	Homo sapi
c 561	12.8	0.9	25	9	A1565902	AI565902	tr93h08..x	c 634	12.8	0.9	30	10	BI556227	BI556227	603237625
c 562	12.8	0.9	25	10	BG899263	BG899263	HOA17-1-E	c 635	12.8	0.9	30	10	BI562246	BI562246	603254963
c 563	12.8	0.9	25	12	A2340246	A2340246	1M0072C18	c 636	12.8	0.9	30	10	BM398103	BM398103	5009-0-40
c 564	12.8	0.9	25	12	A2348233	A2348233	1M0084G04	c 637	12.8	0.9	30	10	BE385582	BE385582	601275867
c 565	12.8	0.9	25	12	A2350753	A2350753	1M0088M20	c 638	12.8	0.9	30	12	A2343274	A2343274	1M0076C04
c 566	12.8	0.9	25	12	A2417946	A2417946	1M0193O15	c 639	12.8	0.9	30	12	A2423436	A2423436	1M0202I01
c 567	12.8	0.9	25	12	A2583357	A2583357	1M0378C24	c 640	12.8	0.9	30	12	A2464926	A2464926	1M0274J04
c 568	12.8	0.9	25	12	A2661706	A2661706	1M0540J21	c 641	12.8	0.9	30	12	A2479868	A2479868	1M0300I19
c 569	12.8	0.9	25	12	A2772979	A2772979	1M0584E13	c 642	12.8	0.9	30	12	A2598617	A2598617	1M0413G01
c 570	12.8	0.9	25	12	A2782142	A2782142	2M0022H10	c 643	12.8	0.9	30	12	A2782090	A2782090	2M0022I02
c 571	12.8	0.9	25	12	A2872633	A2872633	2M0186K01	c 644	12.8	0.9	30	12	A2783604	A2783604	2M0025F05
c 572	12.8	0.9	25	12	A2938825	A2938825	2M0197J05	c 645	12.8	0.9	30	12	BH127958	BH127958	G-2422..r
c 573	12.8	0.9	25	12	A2976143	A2976143	2M0251P21	c 646	12.8	0.9	30	12	TA341A10Q	TA341A10Q	T..brucei
c 574	12.8	0.9	25	12	TA185B02Q	AI473769	T..brucei	c 647	12.8	0.9	30	12	TA36H04Q	TA36H04Q	T..brucei
c 575	12.8	0.9	25	12	TA356H06P	AI497150	T..brucei	c 648	12.6	0.9	19	10	BM394390	BM394390	50072-2-3
c 576	12.8	0.9	26	12	A2309695	A2309695	1M0016H13	c 649	12.6	0.9	19	12	A2328696	A2328696	1M0052006
c 577	12.8	0.9	26	12	A2369592	A2369592	1M0120E16	c 650	12.6	0.9	19	12	A242378	A242378	1M0236K18
c 578	12.8	0.9	26	12	A2386054	A2386054	1M0145A05	c 651	12.6	0.9	19	12	A2782026	A2782026	2M0021I23
c 579	12.8	0.9	26	12	A2506565	A2506565	1M0347H18	c 652	12.6	0.9	19	12	A2835034	A2835034	2M0129K04
c 580	12.8	0.9	26	12	A2514624	A2514624	1M0361P19	c 653	12.6	0.9	19	12	A2858978	A2858978	2M0164F24
c 581	12.8	0.9	26	12	A2628823	A2628823	1M0481G13	c 654	12.6	0.9	19	12	A2969354	A2969354	2M0242A07
c 582	12.8	0.9	26	12	A2660002	A2660002	1M0537L18	c 655	12.6	0.9	20	10	BM395025	BM395025	50072-2-7
c 583	12.8	0.9	26	12	A2760191	A2760191	1M0553P10	c 656	12.6	0.9	20	12	A2345513	A2345513	1M0080J04
c 584	12.8	0.9	26	12	A2808201	A2808201	2M0071F14	c 657	12.6	0.9	20	12	A2452238	A2452238	1M0252C05
c 585	12.8	0.9	26	12	A2818942	A2818942	2M0089I15	c 658	12.6	0.9	20	12	A2512326	A2512326	1M0357I18
c 586	12.8	0.9	26	12	A2820150	A2820150	2M0092K11	c 659	12.6	0.9	20	12	A2637794	A2637794	1M0497D20
c 587	12.8	0.9	26	12	A2837402	A2837402	2M0132H10	c 660	12.6	0.9	20	12	A2830894	A2830894	2M0110E22
c 588	12.8	0.9	26	12	A2955924	A2955924	2M0222P10	c 661	12.6	0.9	21	12	A2419284	A2419284	1M0195A16
c 589	12.8	0.9	27	12	A2499171	A2499171	1M0336J22	c 662	12.6	0.9	21	12	A2499846	A2499846	1M0337E23
c 590	12.8	0.9	27	12	A2763057	A2763057	1M0558C22	c 663	12.6	0.9	21	12	A2580960	A2580960	1M0369P04
c 591	12.8	0.9	27	12	A2787475	A2787475	2M0033F09	c 664	12.6	0.9	21	12	A2657144	A2657144	1M0533F12
c 592	12.8	0.9	27	12	A2843637	A2843637	2M0142Q06	c 665	12.6	0.9	21	12	A2808777	A2808777	2M0072A04
c 593	12.8	0.9	27	12	TA341G09Q	AI493345	T..brucei	c 666	12.6	0.9	21	12	A2961893	A2961893	2M0230B06
c 594	12.8	0.9	28	9	AA871664	AA871664	vq39d05..r	c 667	12.6	0.9	21	12	A2986278	A2986278	2M0268J21
c 595	12.8	0.9	28	9	AA978158	AI978158	ny36c01..s	c 668	12.6	0.9	22	9	AI679260	AI679260	ts62d08..x
c 596	12.8	0.9	28	9	AI079366	AI079366	oz39c12..s	c 669	12.6	0.9	22	9	AI708898	AI708898	as86h07..x
c 597	12.8	0.9	28	9	AI087295	AI087295	oz77h02..x	c 670	12.6	0.9	22	12	A2433960	A2433960	1M0220C07
c 598	12.8	0.9	28	9	AI096133	AI096133	SMOVL3CAN	c 671	12.6	0.9	22	12	A2611419	A2611419	1M0437D15
c 599	12.8	0.9	28	9	AI256473	AI256473	ui89g06..x	c 672	12.6	0.9	22	12	A2656873	A2656873	1M0332M09
c 600	12.8	0.9	28	9	AI330407	AI330407	fa92c11..x	c 673	12.6	0.9	22	12	A2805296	A2805296	2M0065D08
c 601	12.8	0.9	28	9	AI628556	AI628556	ty95d11..x	c 674	12.6	0.9	22	12	A2974046	A2974046	2M0248C01

675	12.6	0.9	23	12	AZ305188	IM0005C17	AZ305188	IM0005C17	748	12.6	0.9	28	12	A2947343	AZ947343	2M0210G06
676	12.6	0.9	23	12	A2311201	IM0026F04	A2311201	IM0026F04	c 749	12.6	0.9	28	12	AZ958417	AZ958417	2M0225N12
677	12.6	0.9	23	12	A2618720	IM0450019	A2618720	IM0450019	750	12.6	0.9	29	9	AW249406	AW249406	2819441.5
678	12.6	0.9	23	12	A2643860	IM0507J04	A2643860	IM0507J04	c 751	12.6	0.9	29	9	AW249406	AW249406	2819441.5
679	12.6	0.9	23	12	A2763749	IM0559B19	A2763749	IM0559B19	752	12.6	0.9	29	12	AZ395488	AZ395488	1M0159A07
680	12.6	0.9	23	12	AZ789371	2M0037L01	AZ789371	2M0037L01	753	12.6	0.9	29	12	AZ454960	AZ454960	1M0257F08
681	12.6	0.9	23	12	AZ848503	2M0149H02	AZ848503	2M0149H02	754	12.6	0.9	29	12	AZ479842	AZ479842	1M0300B20
682	12.6	0.9	23	12	TA265A03P		AL484822	T. brucei	755	12.6	0.9	29	12	AZ609543	AZ609543	1M0434C15
683	12.6	0.9	24	12	AZ310221	IM0025P05	AZ310221	IM0025P05	c 756	12.6	0.9	29	12	AZ657879	AZ657879	1M0534A23
684	12.6	0.9	24	12	AZ588336	IM0396O06	AZ588336	IM0396O06	c 757	12.6	0.9	29	12	AZ781479	AZ781479	2M0019I20
685	12.6	0.9	24	12	AZ608837	IM0433L14	AZ608837	IM0433L14	758	12.6	0.9	29	12	AZ989263	AZ989263	2M0272L04
686	12.6	0.9	24	12	AZ642367	IM0505H12	AZ642367	IM0505H12	759	12.6	0.9	30	10	BI153943	BI153943	602870782
687	12.6	0.9	24	12	AZ665864	IM0547I04	AZ665864	IM0547I04	760	12.6	0.9	30	10	BI223044	BI223044	602943380
688	12.6	0.9	25	9	AI174382	an18f09.s	AI174382	an18f09.s	761	12.6	0.9	30	10	BI768935	BI768935	603058057
689	12.6	0.9	25	9	AI432740	tb43h06.x	AI432740	tb43h06.x	762	12.6	0.9	30	10	C20586	C20586	HUMG000367
690	12.6	0.9	25	9	AI654278	tg89f05.x	AI654278	tg89f05.x	c 763	12.6	0.9	30	10	T50761	T50761	YB31h04.s1
691	12.6	0.9	25	12	AZ406180	IM0175M18	AZ406180	IM0175M18	764	12.6	0.9	30	10	BE297610	BE297610	601178187
692	12.6	0.9	25	12	AZ420657	IM0198P02	AZ420657	IM0198P02	765	12.6	0.9	30	12	AZ320229	AZ320229	1M00040J12
693	12.6	0.9	25	12	AZ423795	IM0203L21	AZ423795	IM0203L21	c 766	12.6	0.9	30	12	AZ363528	AZ363528	1M0109P06
694	12.6	0.9	25	12	AZ508976	IM0351N10	AZ508976	IM0351N10	c 767	12.6	0.9	30	12	AZ376002	AZ376002	1M0129J07
695	12.6	0.9	25	12	AZ510562	IM0355F11	AZ510562	IM0355F11	768	12.6	0.9	30	12	AZ408639	AZ408639	1M0179I23
696	12.6	0.9	25	12	AZ599533	IM0414N20	AZ599533	IM0414N20	c 769	12.6	0.9	30	12	AZ486794	AZ486794	1M0315N24
697	12.6	0.9	25	12	AZ781174	2M0019O07	AZ781174	2M0019O07	c 770	12.6	0.9	30	12	AZ655323	AZ655323	1M0530D14
698	12.6	0.9	26	10	AZ944762	2M0205N19	AZ944762	2M0205N19	771	12.6	0.9	30	12	AZ657672	AZ657672	1M0534G02
699	12.6	0.9	26	10	L32064	HUMXP19G12	L32064	HUMXP19G12	772	12.6	0.9	30	12	AZ666375	AZ666375	1M0548C20
700	12.6	0.9	26	12	AZ313484	IM0029D09	AZ313484	IM0029D09	773	12.6	0.9	30	12	AZ770421	AZ770421	1M0572D01
701	12.6	0.9	26	12	AZ509025	IM0351H17	AZ509025	IM0351H17	774	12.6	0.9	30	12	AZ788334	AZ788334	2M0035B19
702	12.6	0.9	26	12	AZ780294	2M0017G01	AZ780294	2M0017G01	775	12.6	0.9	30	12	AZ815328	AZ815328	2M0083D03
703	12.6	0.9	26	12	TA157A01Q		AL472512	T. brucei	776	12.6	0.9	30	12	AZ833458	AZ833458	2M0115L02
704	12.6	0.9	26	12	TA29C06Q		AL452652	T. brucei	777	12.6	0.9	30	12	TA179H01P	TA179H01P	
705	12.6	0.9	26	12	TA35E103P		AL493799	T. brucei	c 778	12.6	0.9	30	12	TA199E03P	TA199E03P	
706	12.6	0.9	27	10	L32054	HUMXP519B.H	L32054	HUMXP519B.H	c 779	12.6	0.9	30	12	TA21H04Q	TA21H04Q	
707	12.6	0.9	27	10	T94199	ye32e09.r1	T94199	ye32e09.r1	c 780	12.4	0.9	16	9	AI749229	AI749229	as41a02.x
708	12.6	0.9	27	12	AZ345930	IM0080K21	AZ345930	IM0080K21	c 781	12.4	0.9	19	9	AI719958	AI719958	as41d06.x
709	12.6	0.9	27	12	AZ463355	IM0272E09	AZ463355	IM0272E09	c 782	12.4	0.9	19	9	AI807936	AI807936	wf52e09.x
710	12.6	0.9	27	12	AZ633750	IM0489I09	AZ633750	IM0489I09	c 783	12.4	0.9	19	10	BM398839	BM398839	5009-0-5-
711	12.6	0.9	27	12	AZ763599	IM0559E08	AZ763599	IM0559E08	784	12.4	0.9	19	12	AZ400662	AZ400662	1M0167K06
712	12.6	0.9	27	12	AZ829406	2M0107K06	AZ829406	2M0107K06	785	12.4	0.9	20	12	AZ339816	AZ339816	1M0071M24
713	12.6	0.9	27	12	AZ835367	2M0129M03	AZ835367	2M0129M03	c 786	12.4	0.9	20	12	AZ398062	AZ398062	1M0163M14
714	12.6	0.9	27	12	TA50F03Q		AL456102	T. brucei	c 787	12.4	0.9	20	12	AZ609449	AZ609449	1M0434D20
715	12.6	0.9	28	9	AA870545	vg23a04.r	AA870545	vg23a04.r	788	12.4	0.9	20	12	AZ793982	AZ793982	2M0047I05
716	12.6	0.9	28	9	AA938709	oc09g05.s	AA938709	oc09g05.s	c 789	12.4	0.9	20	12	AZ816496	AZ816496	2M0085G16
717	12.6	0.9	28	9	AA961904	or68G12.s	AA961904	or68G12.s	790	12.4	0.9	21	12	AZ233807	AZ233807	1M0045N21
718	12.6	0.9	28	9	AA990156	ua60G03.r	AA990156	ua60G03.r	c 791	12.4	0.9	21	12	AZ845957	AZ845957	2M0145P24
719	12.6	0.9	28	9	AI089047	ou84h01.s	AI089047	ou84h01.s	c 792	12.4	0.9	22	9	AA912871	AA912871	cl27a02.s
720	12.6	0.9	28	9	AI147582	qb21f07.x	AI147582	qb21f07.x	c 793	12.4	0.9	22	9	AI566419	AI566419	tr95c08.x
721	12.6	0.9	28	9	AI180766	ub76a11.r	AI180766	ub76a11.r	794	12.4	0.9	22	9	AI633039	AI633039	tz33g06.x
722	12.6	0.9	28	9	AI286305	qu91g01.x	AI286305	qu91g01.x	c 795	12.4	0.9	22	9	AI688330	AI688330	wc34c08.x
723	12.6	0.9	28	9	AI288386	qv85c01.x	AI288386	qv85c01.x	c 796	12.4	0.9	22	12	AZ349111	AZ349111	1M0086B03
724	12.6	0.9	28	9	AI307722	tb36d02.x	AI307722	tb36d02.x	797	12.4	0.9	22	12	AZ364062	AZ364062	1M0110A08
725	12.6	0.9	28	9	AI368992	qw17e04.x	AI368992	qw17e04.x	798	12.4	0.9	22	12	AZ470511	AZ470511	1M0284D10
726	12.6	0.9	28	9	AI522573	fb59d12.x	AI522573	fb59d12.x	c 799	12.4	0.9	22	12	AZ656873	AZ656873	1M0532M09
727	12.6	0.9	28	9	AI633014	t233d07.x	AI633014	t233d07.x	800	12.4	0.9	22	12	AZ797063	AZ797063	2M0053N03
728	12.6	0.9	28	9	AI633014	t233d07.x	AI633014	t233d07.x	c 801	12.4	0.9	22	12	AZ798235	AZ798235	2M0034O19
729	12.6	0.9	28	9	AI708042	as60c05.x	AI708042	as60c05.x	c 802	12.4	0.9	22	12	AZ840252	AZ840252	2M0136P10
730	12.6	0.9	28	9	AI745328	tr21g01.x	AI745328	tr21g01.x	c 803	12.4	0.9	22	12	AZ861868	AZ861868	2M0168I19
731	12.6	0.9	28	9	AA249938	2821521.3	AA249938	2821521.3	804	12.4	0.9	22	12	TA13G02P	TA13G02P	
732	12.6	0.9	28	9	AA484974	aa39a01.r	AA484974	aa39a01.r	805	12.4	0.9	23	12	AZ340024	AZ340024	1M0071G15
733	12.6	0.9	28	9	AA499008	vi87h06.r	AA499008	vi87h06.r	806	12.4	0.9	23	12	AZ411764	AZ411764	1M0184O22
734	12.6	0.9	28	10	BG325479	HNC5-1-B1	BG325479	HNC5-1-B1	c 807	12.4	0.9	23	12	AZ425674	AZ425674	1M0205F19
735	12.6	0.9	28	10	R63848	y121a09.r1	R63848	y121a09.r1	c 808	12.4	0.9	23	12	AZ456925	AZ456925	1M0260J06
736	12.6	0.9	28	12	AZ303959	IM0003P16	AZ303959	IM0003P16	809	12.4	0.9	23	12	AZ581540	AZ581540	1M0370E22
737	12.6	0.9	28	12	AZ317107	IM0035E09	AZ317107	IM0035E09	c 810	12.4	0.9	23	12	AZ583544	AZ583544	1M0378G05
738	12.6	0.9	28	12	AZ352539	IM0090J21	AZ352539	IM0090J21	811	12.4	0.9	23	12	AZ764518	AZ764518	1M0560L11
739	12.6	0.9	28	12	AZ410454	IM0182K16	AZ410454	IM0182K16	c 812	12.4	0.9	23	12	AZ764518	AZ764518	1M0560L11
740	12.6	0.9	28	12	AZ485440	IM0312B22	AZ485440	IM0312B22	813	12.4	0.9	23	12	AZ781980	AZ781980	2M0021N13
741	12.6	0.9	28	12	AZ486627	IM0314H13	AZ486627	IM0314H13	c 814	12.4	0.9	23	12	AZ827973	AZ827973	2M0104P11
742	12.6	0.9	28	12	AZ512393	IM0357F20	AZ512393	IM0357F20	c 815	12.4	0.9	23	12	AZ949214	AZ949214	2M012005
743	12.6	0.9	28	12	AZ633122	IM0488L09	AZ633122	IM0488L09	816	12.4	0.9	23	12	TA178H03P	TA178H03P	
744	12.6	0.9	28	12	AZ652464	1M0525N10	AZ652464	1M0525N10	c 817	12.4	0.9	24	10	BM399781	BM399781	5009-0-61
745	12.6	0.9	28	12	AZ799395	2M0056N16	AZ799395	2M0056N16	818	12.4	0.9	24	12	AZ307682	AZ307682	1M0009P21
746	12.6	0.9	28	12	AZ811033	2M0077B02	AZ811033	2M0077B02	819	12.4	0.9	24	12	AZ309298	AZ309298	1M0013M15
747	12.6	0.9	28	12					820	12.4	0.9	24	12			

821	12.4	0.9	24	12	AZ331553	AZ331553	1M0059K06	894	12.4	0.9	28	12	AZ457059	AZ457059	1M0260B14
c 822	12.4	0.9	24	12	AZ332511	AZ332511	1M0061I02	895	12.4	0.9	28	12	AZ463637	AZ463637	1M0272A11
823	12.4	0.9	24	12	AZ375584	AZ375584	1M0129F04	896	12.4	0.9	28	12	AZ650845	AZ650845	1M0521B13
824	12.4	0.9	24	12	AZ387313	AZ387313	1M0146E08	897	12.4	0.9	28	12	AZ774890	AZ774890	2M0004A15
c 825	12.4	0.9	24	12	AZ420211	AZ420211	1M0197C22	c 898	12.4	0.9	28	12	CNS00BJY	AL057272	2M0004H11
c 826	12.4	0.9	24	12	AZ491197	AZ491197	1M0324C10	c 899	12.4	0.9	29	12	AZ345862	AZ345862	1M0080I14
c 827	12.4	0.9	24	12	AZ584313	AZ584313	1M0388F13	c 900	12.4	0.9	29	12	AZ387832	AZ387832	1M0147F23
c 828	12.4	0.9	24	12	AZ585617	AZ585617	1M0390I23	c 901	12.4	0.9	29	12	AZ490639	AZ490639	1M0323B14
c 829	12.4	0.9	24	12	AZ585617	AZ585617	1M0390I23	c 902	12.4	0.9	29	12	AZ490639	AZ490639	1M0323B14
c 830	12.4	0.9	24	12	AZ656029	AZ656029	1M0531O18	c 903	12.4	0.9	29	12	AZ595520	AZ595520	1M0408M09
831	12.4	0.9	24	12	AZ764494	AZ764494	1M0560E06	904	12.4	0.9	29	12	AZ607297	AZ607297	1M0428K07
832	12.4	0.9	25	9	AA936737	AA936737	oi59f10.s	c 905	12.4	0.9	29	12	AZ642459	AZ642459	1M0505D06
833	12.4	0.9	25	9	AL017105	AL017105	1M039E09.x	c 906	12.4	0.9	29	12	AZ771858	AZ771858	1M0574P16
c 834	12.4	0.9	25	9	AL147073	AL147073	ok33c05.s	907	12.4	0.9	29	12	AZ786433	AZ786433	2M0031M21
c 835	12.4	0.9	25	9	AL147073	AL147073	ok33c05.s	907	12.4	0.9	29	12	AZ786433	AZ786433	2M0031M21
c 836	12.4	0.9	25	9	AL142344	AL142344	tf67d04.x	c 908	12.4	0.9	29	12	AZ789510	AZ789510	2M0037B24
c 837	12.4	0.9	25	9	AL1424019	AL1424019	tf51e01.x	909	12.4	0.9	29	12	AZ798694	AZ798694	2M0055F12
c 838	12.4	0.9	25	9	AL1439242	AL1439242	tf53h12.x	c 910	12.4	0.9	29	12	AZ799171	AZ799171	2M0056F14
c 839	12.4	0.9	25	9	AL171676	AL171676	tl98d02.x	c 911	12.4	0.9	29	12	AZ814153	AZ814153	2M0008I14
c 840	12.4	0.9	25	9	AL1688259	AL1688259	wc29h07.x	c 912	12.4	0.9	29	12	AZ838103	AZ838103	2M0133I11
c 841	12.4	0.9	25	9	AL1971899	AL1971899	wv29h04.x	c 913	12.4	0.9	29	12	TA217F07Q	AL4769008 T. brucei	
c 842	12.4	0.9	25	10	BG929095	BG929095	HNC11-1-C	914	12.4	0.9	30	9	AW246132	AW246132	2821168.5
c 843	12.4	0.9	25	10	BM395454	BM395454	50072-2-9	915	12.4	0.9	30	9	AW246132	AW246132	2821168.5
844	12.4	0.9	25	10	BM397196	BM397196	5009-0-3-	916	12.4	0.9	30	10	BM393952	BM393952	50072-2-1
845	12.4	0.9	25	10	BM397340	BM397340	5009-0-31	917	12.4	0.9	30	10	BM397706	BM397706	5009-0-35
c 846	12.4	0.9	25	10	BM398324	BM398324	5009-0-44	c 918	12.4	0.9	30	10	BM398184	BM398184	5009-0-41
c 847	12.4	0.9	25	12	AZ460726	AZ460726	1M0266G01	c 919	12.4	0.9	30	12	AZ582204	AZ582204	1M0374N19
c 848	12.4	0.9	25	12	AZ594720	AZ594720	1M0406F23	c 920	12.4	0.9	30	12	AZ604126	AZ604126	1M0423O13
849	12.4	0.9	25	12	AZ639989	AZ639989	1M0501F15	921	12.4	0.9	30	12	AZ628988	AZ628988	1M0481I10
850	12.4	0.9	25	12	AZ780325	AZ780325	2M0017N06	922	12.4	0.9	30	12	AZ628988	AZ628988	1M0481I10
851	12.4	0.9	25	12	AZ861588	AZ861588	2M0168J04	923	12.4	0.9	30	12	AZ642644	AZ642644	1M0505F18
852	12.4	0.9	25	12	AZ861766	AZ861766	2M0168K19	c 924	12.4	0.9	30	12	AZ761097	AZ761097	1M0555C17
853	12.4	0.9	25	12	AZ867891	AZ867891	2M0178I21	c 925	12.4	0.9	30	12	AZ77592	AZ77592	1M0570A02
c 854	12.4	0.9	25	12	AZ873581	AZ873581	2M0187G19	926	12.4	0.9	30	12	AZ77592	AZ77592	1M0570A02
855	12.4	0.9	26	10	BM398197	BM398197	5009-0-42	c 928	12.4	0.9	30	12	AZ840293	AZ840293	2M0136H17
856	12.4	0.9	26	10	R32032	R32032	yh63f05.s1	c 929	12.4	0.9	30	12	AZ853274	AZ853274	2M0156D23
c 857	12.4	0.9	26	12	AZ309024	AZ309024	1M0012H07	c 930	12.4	0.9	30	12	AZ964430	AZ964430	2M0234C11
c 858	12.4	0.9	26	12	AZ363822	AZ363822	1M0109P03	931	12.4	0.9	30	12	AZ964430	AZ964430	2M0234C11
859	12.4	0.9	26	12	AZ480391	AZ480391	1M0301G21	932	12.4	0.9	30	12	AZ995340	AZ995340	2M0281E11
860	12.4	0.9	26	12	AZ480683	AZ480683	1M0302H20	c 933	12.4	0.9	30	12	BH011418	BH011418	BG01729-5
861	12.4	0.9	26	12	AZ509025	AZ509025	1M0351H17	c 934	12.2	0.9	18	10	BM394652	BM394652	50072-2-5
862	12.4	0.9	26	12	AZ512846	AZ512846	1M0358N07	c 935	12.2	0.9	19	9	AL180128	AL180128	wf65g12.x
c 863	12.4	0.9	26	12	AZ615034	AZ615034	1M0358N07	c 936	12.2	0.9	19	12	AZ368655	AZ368655	1M0118P13
c 864	12.4	0.9	26	12	TA333F05P	TA333F05P	1M0358N07	c 937	12.2	0.9	19	12	AZ495849	AZ495849	1M0331N22
865	12.4	0.9	27	10	BM395243	BM395243	50072-2-8	c 938	12.2	0.9	19	12	AZ760597	AZ760597	1M0554N21
866	12.4	0.9	27	10	D12150	D12150	HUM000S248	c 939	12.2	0.9	19	12	AZ854647	AZ854647	2M0158P15
c 867	12.4	0.9	27	12	AZ319730	AZ319730	1M0039H04	c 940	12.2	0.9	19	12	AZ864599	AZ864599	2M0174G17
c 868	12.4	0.9	27	12	AZ335603	AZ335603	1M0065E13	c 941	12.2	0.9	19	12	AZ949434	AZ949434	2M0212K23
c 869	12.4	0.9	27	12	AZ599857	AZ599857	1M0416K19	c 942	12.2	0.9	20	10	BM393608	BM393608	50072-2-1
c 870	12.4	0.9	27	12	AZ623416	AZ623416	1M0461C08	c 943	12.2	0.9	20	10	BM394340	BM394340	50072-2-3
871	12.4	0.9	27	12	AZ949965	AZ949965	2M0213L16	944	12.2	0.9	20	12	AZ417235	AZ417235	1M0192N15
c 872	12.4	0.9	27	12	TA90B05P	TA90B05P	1M0461C08	945	12.2	0.9	20	12	AZ626183	AZ626183	1M0466K15
c 873	12.4	0.9	28	2	HSM004376	HSM004376	1M0461C08	c 946	12.2	0.9	20	12	AZ827586	AZ827586	2M0104C08
c 874	12.4	0.9	28	9	AL717506	AL717506	1M0461C08	c 947	12.2	0.9	21	10	BM395436	BM395436	50072-2-9
c 875	12.4	0.9	28	9	AA883279	AA883279	1M0461C08	948	12.2	0.9	21	12	AZ323997	AZ323997	1M0045B18
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c 877	12.4	0.9	28	9	AL145347	AL145347	1M0461C08	c 950	12.2	0.9	21	12	AZ583408	AZ583408	1M0378N23
c 878	12.4	0.9	28	9	AL537875	AL537875	1M0461C08	c 951	12.2	0.9	21	12	AZ598137	AZ598137	1M0412F16
879	12.4	0.9	28	9	AL591048	AL591048	1M0461C08	c 952	12.2	0.9	21	12	AZ598381	AZ598381	1M0413J11
c 880	12.4	0.9	28	9	AL635783	AL635783	1M0461C08	c 953	12.2	0.9	21	12	AZ831993	AZ831993	2M0112M01
c 881	12.4	0.9	28	9	AL635783	AL635783	1M0461C08	c 954	12.2	0.9	21	12	AZ871389	AZ871389	2M0184A14
c 882	12.4	0.9	28	9	AL1678332	AL1678332	1M0461C08	c 955	12.2	0.9	22	9	AA903686	AA903686	ok54g01.s
c 883	12.4	0.9	28	9	AL179155	AL179155	1M0461C08	c 956	12.2	0.9	22	9	AL140140	AL140140	tl62d04.x
c 884	12.4	0.9	28	9	AL175806	AL175806	1M0461C08	c 957	12.2	0.9	22	9	AL1708898	AL1708898	as86h07.x
c 885	12.4	0.9	28	9	AL821537	AL821537	1M0461C08	c							

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c 968 12.2 0.9 24 2 HSM010419 AL045569 Homo sapi
c 969 12.2 0.9 24 10 BG896942 BG896942 HOA59-1-B
c 970 12.2 0.9 24 10 BM395564 BM395564 50072-2-9
c 971 12.2 0.9 24 12 AZ330734 1M0056809
c 972 12.2 0.9 24 12 AZ330734 1M0056809
c 973 12.2 0.9 24 12 AZ789161 2M0036A15
c 974 12.2 0.9 24 12 AZ822871 2M0096B05
c 975 12.2 0.9 24 12 AZ822871 2M0096B05
c 976 12.2 0.9 24 12 AZ939258 2M0198H10
c 977 12.2 0.9 24 12 AL452050 T. brucei
c 978 12.2 0.9 25 9 AA871952 vq43B09.r
c 979 12.2 0.9 25 9 AA878798 oF82H02.s
c 980 12.2 0.9 25 9 AI613472 ty37406.x
c 981 12.2 0.9 25 9 AI628239 ty93C04.x
c 982 12.2 0.9 25 9 AI648460 t256B06.x
c 983 12.2 0.9 25 9 AI654597 tg22H08.x
c 984 12.2 0.9 25 9 AI739003 w134B01.x
c 985 12.2 0.9 25 9 AI758887 ty94G11.x
c 986 12.2 0.9 25 9 AI762378 w154F10.x
c 987 12.2 0.9 25 9 AI762402 wh65E10.x
c 988 12.2 0.9 25 9 AI913416 tz77A09.x
c 989 12.2 0.9 25 9 AI915575 tz40G09.x
c 990 12.2 0.9 25 9 AA565870 d132E03.s
c 991 12.2 0.9 25 10 BM399132 5009-0-53
c 992 12.2 0.9 25 10 L32032 HUMXPIIB6A
c 993 12.2 0.9 25 10 N77071 yv51a03.r1
c 994 12.2 0.9 25 12 AZ338237 1M0069A18
c 995 12.2 0.9 25 12 AZ338237 1M0069A18
c 996 12.2 0.9 25 12 AZ343060 1M0076E18
c 997 12.2 0.9 25 12 AZ343060 1M0076E18
c 998 12.2 0.9 25 12 AZ345541 1M0080P06
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1000 12.2 0.9 25 12 AZ368070 1M0118A01
      AZ375612 1M0129N04
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ALIGNMENTS

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RESULT 1
BE539470/c 30 bp mRNA linear EST 09-AUG-2000
LOCUS 601060134F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3446720 5',
DEFINITION mRNA sequence.
ACCESSION BE539470
VERSION BE539470.1 GI:9768115
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 30)
NIH-MGC http://mgi.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Life Technologies, Inc.
CDNA Sequencing by: Incyte Genomics, Inc.
Clone Distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LINL at:
http://image.llnl.gov
Plate: L1AM8419 row: c column: 09
High quality sequence stop: 30.
Location/Qualifiers
1. .30
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:3446720"
/cell_line="NIH_MGC_10"
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FEATURES

source

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/lab_host="DH10B"
/note="Organ: cervix; Vector: pCMV-SPORT6; Site_1: NotI;
Site_2: SalI; Cloned unidirectionally. Primer: Oligo dt.
Average insert size 1.5 kb. Library prepared by Life
Technologies."
BASE COUNT 2 a 8 c 18 g 2 t
ORIGIN
Query Match 1.2%; Score 17.8; DB 10; Length 30;
Best Local Similarity 90.5%; Pred. No. 7.3e+06;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 621 gccgcgcgcgcgcgcgcgcacc 641
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LOCUS 1M0046B16F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
DEFINITION clone UUGC1M0046B16 F, DNA sequence.
ACCESSION AZ324328
VERSION AZ324328.1 GI:10379937
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 23)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D., Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0046 row: B column: 16
Seq primer: CGTGTAAACACGACGCGCCACT
Class: plasmid ends
High quality sequence stop: 23.
Location/Qualifiers
1. .23
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/clone="UUGC1M0046B16"
/cell_line="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PWD42 (9114732114|gb|AF129072.1), a copy-number
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FEATURES

source


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Db 1 GCTCGCGGCGCGGGAGGCG 21

RESULT 5
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LOCUS 602440944F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4556602 5',
mRNA sequence.
ACCESSION BG400161
VERSION BG400161.1 GI:13293609
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 30)
AUTHORS M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Weiss, R.
TITLE NIH-MGC http://mgc.nci.nih.gov/.
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
cDNA Library Preparation: CLONTECH Laboratories, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LNCMI259 row: h column: 11
High quality sequence stop: 24.
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Location/Qualifiers
1..30
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/clone="IMAGE:4556602"
/clone_lib="NIH_MGC_75"
/lab_host="DH10B (T1 phage-resistant)"
/note="Organ: kidney; Vector: pDNR-LIB (Clontech); Site 1:
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3' adaptors were used in cloning as follows: 5' adaptor
sequence: 5'-CAGCGCCATTATGGCC-3' and 3' adaptor sequence:
5'-ATTCTAGAGCCGAGCGCGGCATG-dh(30)BN-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size 1.65
kb (range 0.5-4.0 kb). 15/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
CA). Note: this is a NIH_MGC Library."
BASE COUNT 10 a 5 c 12 g 3 t
ORIGIN
Query Match 1.1%; Score 16; DB 10; Length 30;
Best Local Similarity 79.2%; Pred. No. 1.5e+07;
Matches 19; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 154 cagcagaagtggtgcagtggtacag 177
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Db 4 CAGCAGGAGGAGGCAGAGCACATG 27

RESULT 6
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LOCUS 1M0474G14F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
DEFINITION clone UUGC1M0474G14 F, DNA sequence.
ACCESSION AZ627848
VERSION AZ627848.1 GI:11750134
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 7
TA263A05P/c 28 bp DNA linear GSS 13-DEC-2000
LOCUS T. brucei sheared genomic DNA clone 263a05, forward sequence,
DEFINITION genomic survey sequence.
ACCESSION AL483783
VERSION AL483783.1 GI:11849873
KEYWORDS GSS.
SOURCE Trypanosoma brucei.
ORGANISM Trypanosoma brucei
Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;

REFERENCE 8
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Weiss, R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0474 row: G column: 14
Seq primer: CGTGTAAACACGACGCCACT
Class: plasmid ends
High quality sequence stop: 20.
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/strain="C57BL/6J"
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/clone="UUGC1M0474G14"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gll4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
BASE COUNT 2 a 0 c 17 g 1 t
ORIGIN
Query Match 1.1%; Score 15.8; DB 12; Length 20;
Best Local Similarity 89.5%; Pred. No. 1.5e+07;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1191 agagtgtgggtgggtggggg 1209
||||| |||| |||| |
Db 1 AGAGTGGGGGGGGGGGGG 19

RESULT 7
TA263A05P/c 28 bp DNA linear GSS 13-DEC-2000
LOCUS T. brucei sheared genomic DNA clone 263a05, forward sequence,
DEFINITION genomic survey sequence.
ACCESSION AL483783
VERSION AL483783.1 GI:11849873
KEYWORDS GSS.
SOURCE Trypanosoma brucei.
ORGANISM Trypanosoma brucei
Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;

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BASE COUNT	3 a	8 c	11 g	8 t	constructed by Bento Soares and M. Fatima Bonaldo.			
ORIGIN								
Query Match					1.1%;	Score 15.6;	DB 10;	Length 30;
Best Local Similarity					81.8%;	Pred. No. 1.8e+07;		
Matches 18;	Conservative	0;	Mismatches	4;	Indels	0;	Gaps	
Qy	758	tgcagcgaggctgcgggcgct	779					
Db	1	TGAACGCGGCTTCGGGTGCT	22					

RESULT	11
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LOCUS	30 bp mRNA linear EST 21-AUG-2001
DEFINITION	G03203487F1 NIH_MGC_97 Homo sapiens cDNA clone IMAGE:5269437 5', mRNA sequence.
ACCESSION	BI463777
VERSION	BI463777.1 GI:15254433
KEYWORDS	EST.
SOURCE	human.

REFERENCE	1. (bases 1 to 30)
AUTHORS	NIH-MGC http://mgc.nci.nih.gov/ .
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL	Unpublished (1999)
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov Tissue Procurement: Miklos Palkovits, M.D., Ph.D. cDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki Toshiyuki and Piero Carninci (RIKEN) cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: LLAM11679 row: m column: 22 High quality sequence stop: 30.

```

1: 30
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5269437"
/clone_lib="NIH_MGC_97"
/lab_host="DH10B"
/note="Organ: testis; Vector: pBluescriptR (modified
pBluescript KS+); Site_1: BamHI; Site_2: SalI-XhoI (ctcag
); Oligo-dr primed using primer 5'-TTTTTTTTTTTTTNN-3',
size-selected for average insert size 2.2 kb and
normalized to R0T 5. This is a primary library enriched
for full-length clones and constructed using the
cap-trapper method (Carninci, in preparation). Library
constructed by M. Brownstein (NIMH/NHGRI, National
Institutes of Health). Note: this is a NIH_MGC Library."
1 a 11 c 12 g 6 t
BASE COUNT

```

```

BASE COUNT      1 a    11 c    12 g    6 t
ORIGIN
Query Match      1.1%; Score 15.6; DB 10; Length 30;
Best Local Similarity 70.0%; Pred. No. 1.8e+07;
Matches 21; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 761 agcggagctgccggcgctgcgggacccgg 790
||||| | | | | | | | | | | | | | | |
Db 1 AGCGGGTTTCGGGGTCGCTGCTGCCCCCG 30

RESULT 12
TA285E07Q

```


University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel.: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0003 row: M column: 17
Seq primer: CGTTGTAACACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 27.

FEATURES

source
1. .27
Location/Qualifiers
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0003M17"
/clone_lib="Mouse 10kb plasmid UUGCLM library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/notes="Vector: pWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (g1147321141gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

BASE COUNT 5 a 9 c 5 g 8 t
ORIGIN

Query Match 1.1%; Score 15.4; DB 12; Length 27;
Best Local Similarity 76.0%; Pred. No. 1.9e+07;
Matches 19; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1238 tccatccagaagcgggggttaca 1262
||||||| | | |||| | |||
Db 3 TCCCATCCCTGTAATGGGTTCA 27

RESULT 15
AI282448/c
LOCUS
DEFINITION AI282448 28 bp mRNA linear EST 21-DEC-1998
similar to WP:T22D1.2 CE17246 ;, mRNA sequence.
ACCESSION AI282448
VERSION AI282448.1 GI:3920681
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 28)
REFERENCE NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
AUTHORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
TITLE Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.

CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www.bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality
Insert Length: 1538 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 1.

FEATURES

source
1. .28
Location/Qualifiers
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1980590"
/clone_lib="NCI-CGAP_Kid8"
/tissue_type="renal cell tumor"
/lab_host="DH10B"
/notes="Organ: kidney; Vector: pCMV-SPORT6; Site_1: SalI;
Site_2: NotI; Cloned unidirectionally. Primer: Oligo dt.
Average insert size 1.2 kb. Life Technologies catalog #:
11524-014"

BASE COUNT 9 a 13 c 6 g 0 t
ORIGIN

Query Match 1.1%; Score 15.4; DB 9; Length 28;
Best Local Similarity 76.0%; Pred. No. 1.9e+07;
Matches 19; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1194 gtgtgggtgggggacctgttt 1218
|| |||| ||||| | |||
Db 25 GTTTGGGGGGGGGCCCTTTT 1

Search completed: August 18, 2002, 18:36:02
Job time: 4927 sec
